SHARP SERVICE MANUAL

SC-700H
SC-700X

ATSMY80189MCT

Photo SC-700H

MODEL

SC-700H (Brown Panel)
SC-700X (Silver Panel)

DOLBY SYSTEM ®

Noise reduction system manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.

APSS
Auto Program Search System

In the interests of user-safety the set should be restored to its original condition and only parts identical to those specified be used.

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FEATURES

Tuner
- PLL Multiplex Decoder
- Advanced FM Front End Design

Amplifier
- Advanced Solid State Design

Tape Deck
- Dual Tape Decks
- APSS (Auto Program Search System)
- Full Auto Stop
- Dolby NR System
- Metal Tape Switch

SHARP CORPORATION OSAKA, JAPAN

SPECIFICATIONS

GENERAL DESCRIPTION

Power source:	AC 110/220/240V, 50/60Hz
Power consumption:	190W
Semiconductors:	16 ICs (Integrated circuits) 1 FET 47 Transistors 29 Diodes 21 LEDs
Dimensions:	Width; 525mm (20-5/8") Height; 160mm (6-5/16") Depth; 300mm (11-13/16")
Weight:	10.6 kg (23.37 lbs.)

AUDIO SECTION

Music power output:	2 x 35W/4 ohms at 0.5% T.H.D.
Continuous power output:	2 x 25W/4 ohms at 0.5% T.H.D. both channels driven
Frequency response:	30Hz to 25kHz (±1.5dB)
Tone control:	Bass; ±9dB at 100Hz Treble; ±9dB at 10kHz
Input sensitivity and input impedance:	
	MIC; 1mV, 10 Kohms PHONO; 3.16mV, 47 Kohms AUX; 150mV, 47 Kohms
Output impedance:	Speakers; 4 ohms Headphones; 8 ohms
Channel separation:	40dB (1kHz)

FM SECTION

Frequency range:	87.6 to 108MHz
Sensitivity:	1.8 μV (at S/N 26dB, 40kHz deviation)
Harmonic distortion:	0.4% (mono) 0.5% (stereo)
Image rejection:	45dB (98MHz)
IF rejection:	80dB (98MHz)
Stereo separation:	36dB (1kHz)
S/N ratio:	65dB (mono) (40kHz deviation)

AM SECTION

Frequency range:	520 to 1620kHz
Quieting sensitivity:	300 μV/m (at S/N 20dB, 1kHz)
IF rejection:	30dB (600kHz)
Image rejection:	45dB (1400kHz)

TAPE DECK SECTION

Tape suitable:	Philips standard compact cassette tape
Wow and flutter:	0.2% (DIN 45 500)
Frequency response: (DIN 45 500)	Deck 1; 31.5 ~ 14000Hz (with normal tape) 31.5 ~ 14000Hz (with CrO2 or metal tape) Deck 2; 40 ~ 12500Hz (with normal tape) 40 ~ 14000Hz (with CrO2 tape) 40 ~ 15000Hz (with metal tape)
S/N ratio: (with metal tape)	Deck 1; 52dB (Dolby NR off) Deck 2; 52dB (Dolby NR off)
Dolby NR effect:	Deck 1; 10dB (at over 5kHz) Deck 2; 10dB (at over 5kHz)

Sharp reserves the right to make design and specification changed for product improvement.

MAINS VOLTAGE SELECTION

The unit is designed to operate from 110V, 220V, or 240V, AC mains.
Check the AC voltage level setting at rear of unit before plugging in supply lead. If necessary, adjust the selector to correspond to the AC supply voltage of your area.

Selector adjustment:
The voltage selector is on the rear of the unit. Turn the selector with a screwdriver in either direction until the correct voltage can be read in the window next to the adjustment screw.

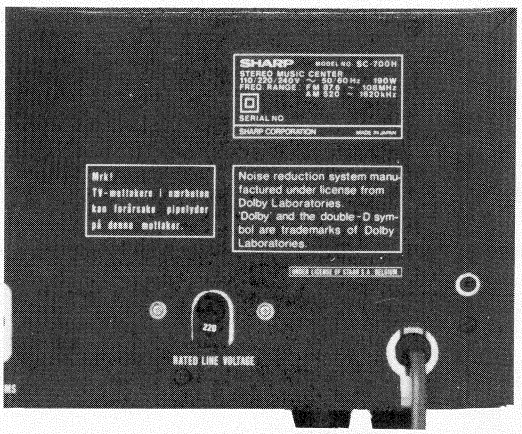

SHARP
SERIAL NO.
SHARP CORPORATION
Noise reduction system manufactured under license from Dolby Laboratories.
'Dolby' and the double-D symbol are trademarks of Dolby Laboratories.
220
RATED LINE VOLTAGE

Figure 2–1

CONTROLS AND FUNCTIONS

Front Panel

1. Power Switch
2. Headphones Jack
3. APSS Indicator
4. Cassette Holder
5. Deck Stop/Eject Key
6. Playback Key
7. Rewind/Reverse APSS Key
8. Fast Forward/Forward APSS Key
9. Pause Key

Deck [1]

10. One-touch Start Button
11. Cassette Holder
12. Stop/Eject Key
13. Record Key
14. Playback Key
15. Rewind Key
16. Fast Forward Key
17. Pause Key

Deck [2]

18. Deck [1]: Dolby NR Switch
19. Deck [2]: Dolby NR Switch
20. Deck [1]: Tape Selector Switch
21. Deck [2]: Tape Selector Switch
22. Function Selector
23. FM Muting Switch
24. Deck [2]: Editor Button
25. Microphone Jacks
26. Volume Control
27. Tuning Control

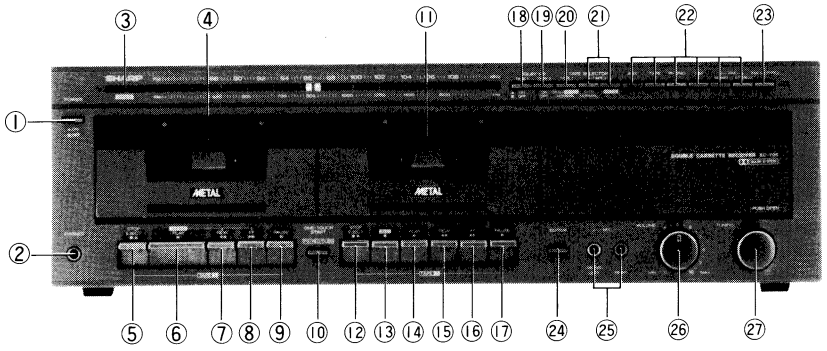


Figure 3–1 Front Panel

Control Section

28. Tape Counter Reset Button
29. Deck [2]: Digital Tape Counter
30. Power Indicator
31. Tape Level Meters
32. Deck [2]: Record Indicator
33. Deck [1]: Dolby NR Indicator
34. FM/AM Signal Strength Indicator
35. FM Stereo Broadcast Indicator
36. Deck [2]: Dolby NR Indicator
37. Loudness Switch
38. Dubbing Switch
39. Tape Operation Selector Switch
40. Record Level Controls
41. Tape Fader Control
42. Microphone Mixing Volume Control
43. Balance Control
44. Bass Control
45. Treble Control

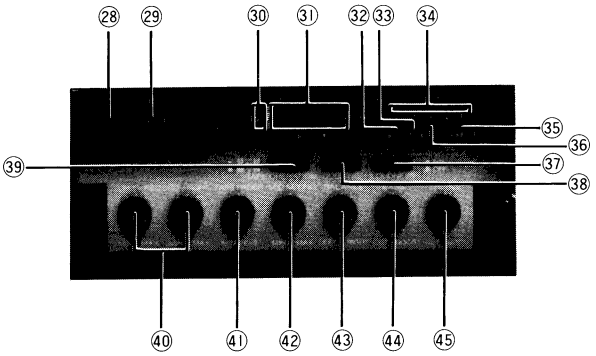


Figure 3–2 Control Section

Rear Panel

46. External AM Antenna Socket
47. External FM Antenna Socket
48. Phono Input Sockets (RCA type sockets)
49. Ground Terminal
50. Phono Input Socket (DIN type socket)
51. Auxiliary Input Socket
52. Speaker Sockets
53. AC Line Voltage Selector
54. Mains Supply Cord

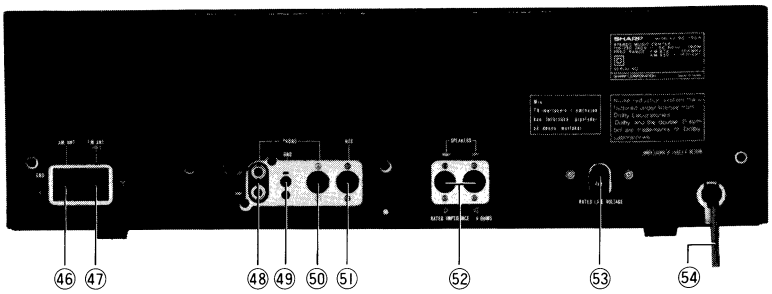


Figure 3–3 Rear Panel

DISASSEMBLY

Cautions on Disassembly

Follow the below-mentioned notes when disassembling the set and reassembling it, to keep its safety and excellent performance:

1. Be sure to remove the power supply plug from the wall outlet before starting to disassemble the set.
2. Take cassette tape out of the cassette holder.
3. Take off nylon bands or wire holders where they need be removed when disassembling the set. After repairing the set, be sure to rearrange the leads at where they have been before disassembling.
4. Take sufficient care on static electricity of integrated circuits and other circuits when repairing.

[A] REMOVAL OF CABINET

1. Remove six screws from the cabinet (two each at right, left and back surfaces). See Fig. 4–1.
2. Slide the cabinet in the arrow direction shown in Fig. 4–1, and lift it up by giving force to its bottom, then remove.

[B] REMOVAL OF BOTTOM PLATE

1. Put the set upside down, remove four screws from the bottom plate, and take off the bottom plate.

[C] REMOVAL OF FRONT PANEL

1. Remove the cabinet in the same way as described in "[A] REMOVAL OF CABINET".
2. Pull out the volume control knob and tuning control knob. See Fig. 4–3.
3. Remove three screws from the front panel (lower part). See Fig. 4–2.
4. Depress the power switch button, and detach three hooks from the front panel to take it off. See Fig. 4–3.

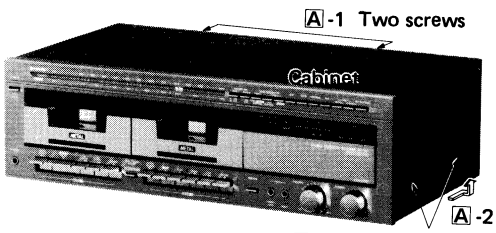
[D] REMOVAL OF CONTROL COVER

1. Remove the cabinet in the same way as described in "[A] REMOVAL OF CABINET".
2. Open the control cover, and detach two switch levers (Dolby NR).
3. Remove one spring from the frame. See Fig. 4–4.
4. Push the control cover at its two places (① and ②) in the arrow directions as shown in Fig. 4–4, then take it off.
   * Detach the left side (①) first, then the right side (②).

[E] REMOVAL OF CASSETTE HOLDER (of either Deck [1] or Deck [2])

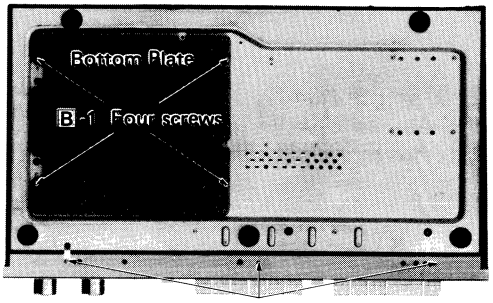
1. Remove the front panel in the same way as described in "[C] REMOVAL OF FRONT PANEL".
2. Depress the cassette eject key to open the cassette holder.
3. Remove two springs from the frame. See Fig. 4–5.
4. Push the cassette holder (of either Deck [1] or Deck [2]) at its two places (① and ②) in the arrow directions shown in Fig. 4–5.

Note: For removing Deck [2] cassette holder, take off the mechanism [2] fitting screws (4 pcs.), then slide the mechanism [2] backward.



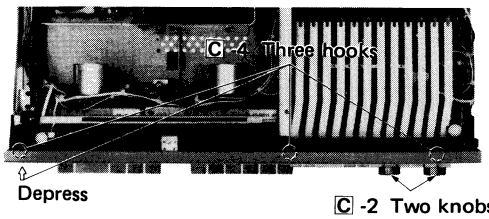
[A]-1 Two screws (Right Side)
Two screws (Left Side)

Figure 4–1



[C]-3 Three screws

Figure 4–2



[C]-2 Two knobs

Figure 4–3

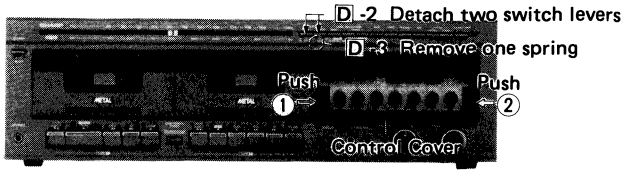


Figure 4–4

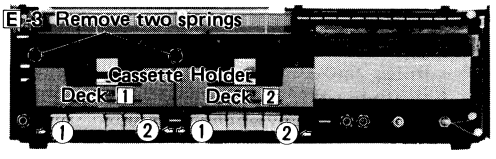


Figure 4–5

F REMOVAL OF MECHANISM BLOCK

Deck 1

1. Remove the cabinet in the same way as described in " A REMOVAL OF CABINET".
2. Pull out three sockets (CNS102, CNS402 and CNS701) shown in Fig. 5–1.
   * Be sure to follow the notes mentioned in Item 3 of "Cautions on Disassembly".
3. From the mechanism block, remove two screws from its upper part (shown in Fig. 5–1) and two screws from its lower part (shown in Fig. 5–2).
4. Slide the mechanism block in the arrow direction shown in Fig. 5–1, and take it out.

Deck 2

5. Remove the cabinet in the same way as described in " A REMOVAL OF CABINET".
6. Pull out three sockets (CNS103, CNS401 and CNS403). See Fig. 5–1.
   * Be sure to follow the notes mentioned in Item 3 of "Cautions on Disassembly".
7. Remove the record/playback switch interlocking spring and tape counter belt. See Fig. 5–1.
8. From the mechanism block, remove two screws from its upper part (shown in Fig. 5–1) and two screws from its lower part (shown in Fig. 5–2).
9. Slide the mechanism block in the arrow direction shown in Fig. 5–1, and take it out.

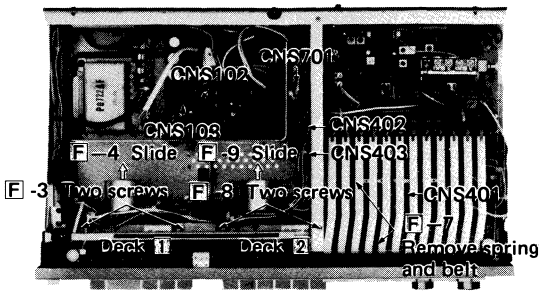


Figure 5–1

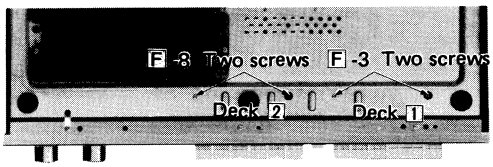


Figure 5–2

G REMOVAL OF FRAME

When the mechanism block (for Decks 1 and 2) is kept attached:

1. Remove the bottom plate and front panel in the same procedures as described in " B REMOVAL OF BOTTOM PLATE" and " C REMOVAL OF FRONT PANEL".
2. Pull out seven sockets (CNS102, CNS103, CNS201, CNS202, CNS401, CNS402, CNS403 and CNS701) and APSS lamp (PL401) shown in Fig. 5–3, and three sockets (CNS301, CNS302 and CNS303) shown in Fig. 5–4.
   * Be sure to follow the notes mentioned in Item 3 of "Cautions on Disassembly".
3. Pull out seven knobs (record level, tape fader, mic mixing, balance, bass, and treble controls). See Fig. 5–5.
4. Remove the dial cord and record/playback switch interlocking spring. See Fig. 5–3.
5. Remove nine screws from the frame, one screw from the dial lamp PWB and one nut from the headphones jack. See Fig. 5–5.
6. Slide the frame in the arrow direction shown in Fig. 5–5 to remove it.

When the mechanism block (for Decks 1 and 2) stays removed:

7. Perform the procedures mentioned in the above Items from 1 to 6 except for removal of six sockets (CNS102, CNS103, CNS401, CNS402, CNS403 and CNS701) in Item 2 and the record/playback switch interlocking spring in Item 4. However, the number of the screws removed in Item 5 are lessened to seven pieces in this case.

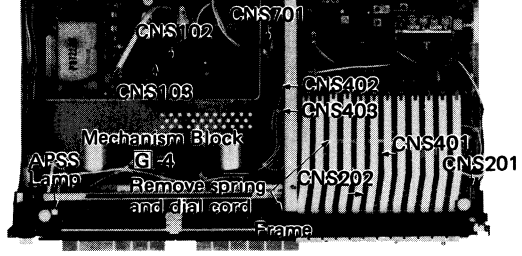


Figure 5–3

Figure 5–4

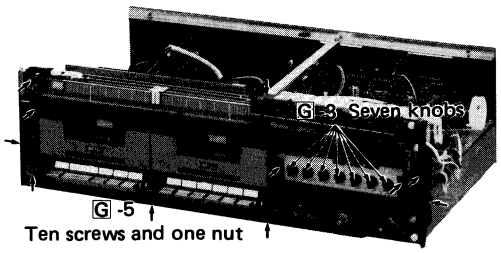


Figure 5–5

H REMOVAL OF LED PWB

1. Remove the cabinet in the same way as described in " A REMOVAL OF CABINET".
2. Pull out two sockets (CNS201 and CNS202). See Fig. 5–6.
3. Remove one screw from the LED PWB. See Fig. 5–6.
4. Detach four hooks from the LED PWB, and take the PWB out. See Fig. 5–6.

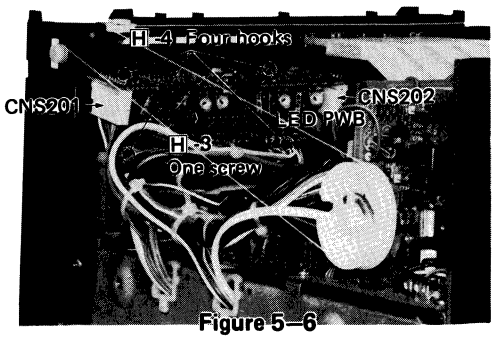


Figure 5–6

I REMOVAL OF VOLUME PWB

1. Remove the bottom plate and front panel in the same procedures as described in " B REMOVAL OF BOTTOM PLATE" and " C REMOVAL OF FRONT PANEL".
2. Pull out three sockets (CNS301, CNS302 and CNS303). See Fig. 6–1.
3. Remove two nuts from the volume PWB, and take the PWB out. See Fig. 6–2.

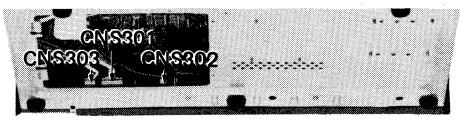


Figure 6–1

J REMOVAL OF MAIN/PLAYBACK AMPLIFIER PWB

1. Remove the bottom plate and front panel in the same procedures as described in " B REMOVAL OF BOTTOM PLATE" and " C REMOVAL OF FRONT PANEL".
2. Detach twelve switch interlocking levers, pull out seven sockets (CNS101, CNS201, CNS202, CNS401, CNS402, CNS403 and CNS701) and one APSS lamp (PL401), all shown in Fig. 6–4; remove three sockets (CNS301, CNS302 and CNS303) shown in Fig. 6–1; and pull out seven knobs (record level, tape fader, mic mixing, balance, bass, and treble controls) shown in Fig. 6–2.
   * Be sure to follow the notes mentioned in Item 3 of "Cautions on Disassembly".
3. Remove two screws from the center bracket, four screws from the terminal board, two screws from the phono input socket, four screws from the phono/aux. DIN socket, and two screws from the AM bar antenna holder. See Fig. 6–3.
4. Remove nine screws from the main PWB. See Fig. 6–4.
5. Remove the dial cord and record/playback switch interlocking spring, then take the main PWB out.

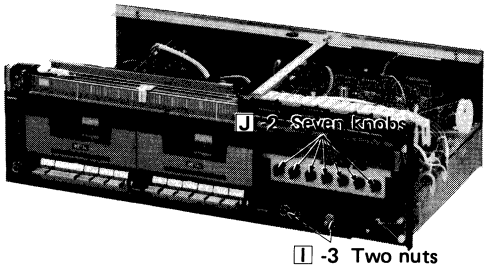


Figure 6–2

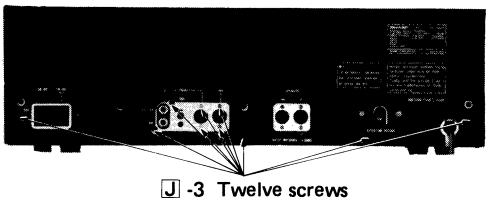


Figure 6–3

K REMOVAL OF POWER PWB

1. Remove the cabinet in the same way as described in " A REMOVAL OF CABINET".
2. Pull out four sockets (CNS101, CNS102, CNS103 and CNS104). See Fig. 6–4.
   * Be sure to follow the notes mentioned in Item 3 of "Cautions on Disassembly".
3. Remove five screws from the heat sink plate (power PWB). See Fig. 6–4.
4. Unfasten the one-touch start switch coupling lever, and take the power PWB out. See Fig. 6–4.

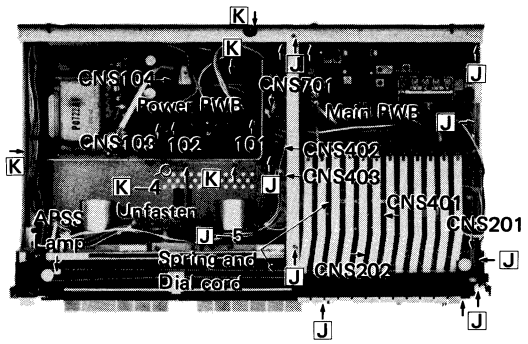


Figure 6–4

DIAL CORD STRINGING

Stretching the string:

1. Turn the drum fully counter-clockwise (to the fL position), and hook the spring in the drum's holes.
2. Stretch the string following the order from ① to ⑨ as shown.
3. After setting the string, turn the dial drive shaft fully counter-clockwise (to the fL position), and set the pointer so as to align its center line along with the zero point of the scale.

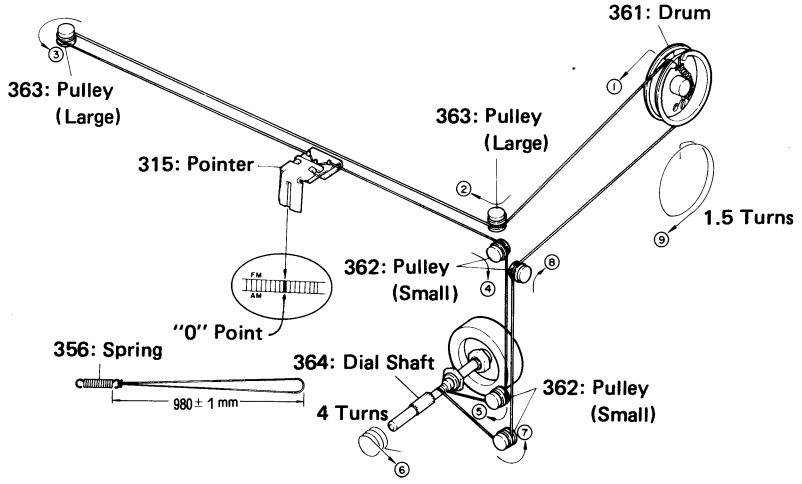


Figure 6–5

CIRCUIT DESCRIPTION

FM SECTION

For understanding of FM section (RF circuit/IF circuit/ stereo demodulator/detector) of the SC-700H/X, refer to pages 7 and 8 of "Service Manual RS-1266H/X" already issued.

AM SECTION

Refer to page 8 of "Service Manual RS-1266H/X" already issued.

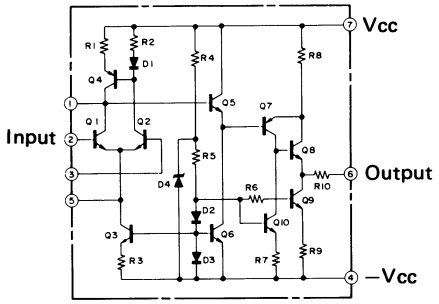


Figure 7–1 Equivalent Circuit of IC301, 302 and IC407, 408 (M5213L)

AUDIO SECTION

Phono Equalizer Amplifier

This circuit consists of IC407 (or IC408). The signal coming from the phono input socket SO402 or SO404 is amplified here, then applied to the function selector switch SW408-8.

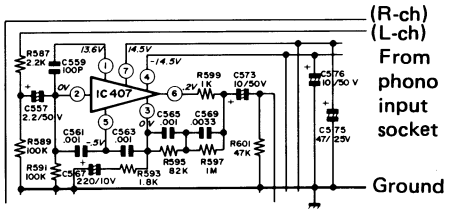


Figure 7–2

Microphone Amplifier

This circuit consists of IC301 (or IC302). The signal coming from the microphone jack J301 is amplified here, then applied to the microphone mixing volume control VR401.

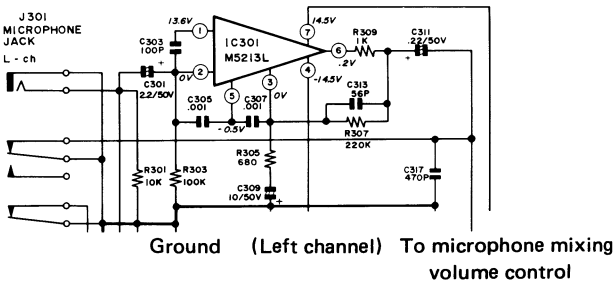


Figure 7–3

Deck [1] playback Equalizer Amplifier

This circuit is composed of Q701 and Q703 (or Q702 and Q704), each being of direct-current coupling type, through which the playback equalizer characteristic of Deck [1] is set to 3180μsec + 120μsec or 3180μsec + 70μsec as the Deck [1] selector switch SW401-3 is switched over, and whose output is delivered to the audio muting circuit made up of Q405 and Q423 (or Q406 and Q424). This circuit also functions as a head amplifier when the set is in APSS mode.

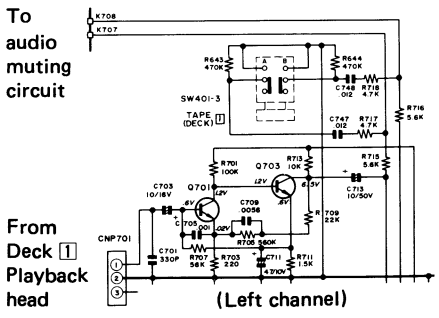


Figure 7–4

Deck [2] Playback Equalizer Amplifier

This circuit is composed of Q407 and Q409 (or Q408 and Q410), each being of direct-current coupling type, and it sets the playback equalizer characteristic of Deck [2] to 3180μsec +120μsec or 3180 μsec + 70 μsec by means of Q411 (or Q412), the output of which is supplied to the Deck [2] Dolby NR circuit via the record/playback switch SW402.

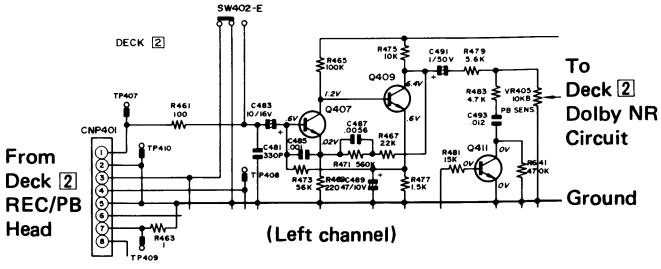


Figure 7–5

Dolby NR Circuit

The set contains two typical Dolby NR circuits, one each for Deck [1] and Deck [2] sections.

a. Deck [1] Dolby NR circuit
This circuit consists of IC701 (or IC702) and serves as a Dolby NR decoder for the Deck [1] . When the function selector switch is set in either AM or FM MONO or FM STEREO mode, this NR decoder turns off regardless of whether the Dolby NR switch is on or off.

Low-pass filters LPF701 and LPF702 are intended to remove FM pilot signal and to prevent bias leak from Deck [2] operation.

b. Deck [2] Dolby NR circuit
This circuit consists of IC405 (or IC406) and serves as a Dolby NR encoder/decoder for the Deck [2] . When the dubbing switch is turned on in record mode, this NR encoder/decoder turns off regardless of whether the Dolby NR switch is on or off.
Low-pass filters LPF401 and LPF402 are to prevent bias leak from being caused in the circuit itself.

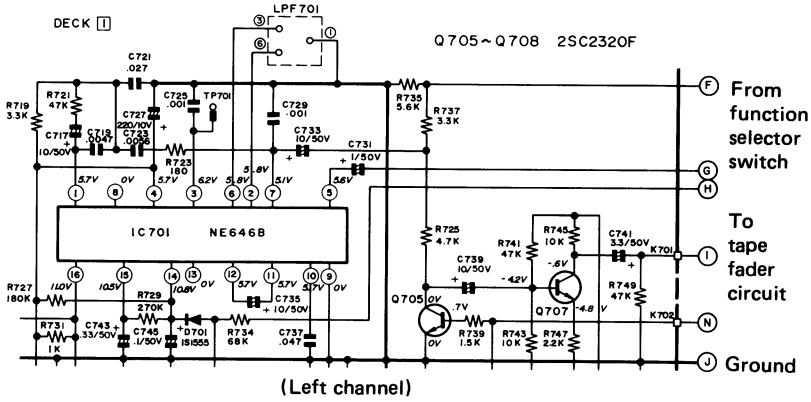


Figure 8–1 Deck [1]

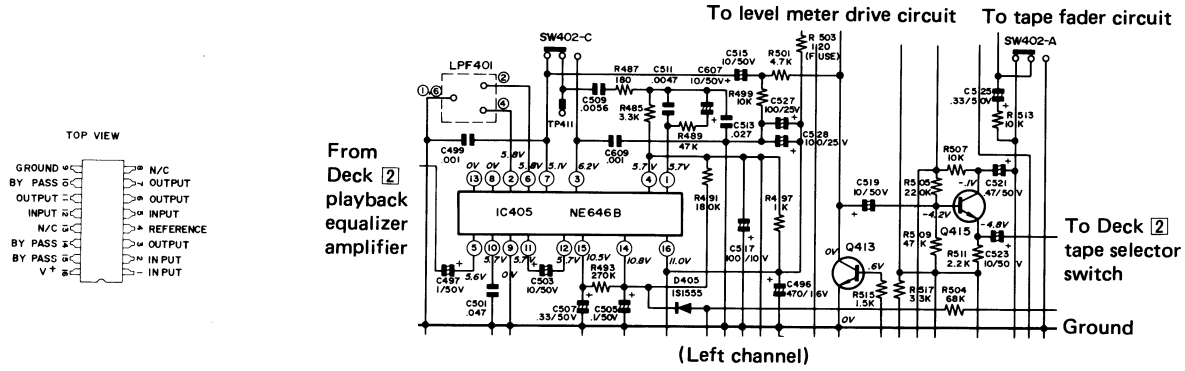


Figure 8–2 Deck [2]

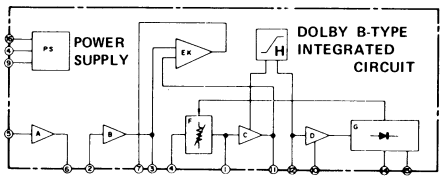


Figure 8–3 Block Diagram of IC405, 406 and IC701, 702 (NE646B)

Deck [1] Muting and Line Amplifier

This circuit is composed of Q705 and Q707 (or Q706 and Q708), and here the signal coming from the Deck [1] Dolby NR circuit is amplified by Q707 (or Q708) to be applied to the next stage, that is, the tape fader circuit. Q705 (or Q706) works as audio muting for the output from the Deck [1] and turns off (opens) only when the Deck [1] is in playback mode.

Deck [2] Muting and Line/Record Equalizer Amplifier

This circuit is made up of Q413 and Q415 (or Q414 and Q416), and when the set is in playback or record mode, it processes the signal coming from the Deck [2] Dolby NR circuit in the following way:

In playback mode: The signal is amplified by Q415 (or Q416), then fed to the next stage, i.e. the tape fader circuit.

In record mode: Q415 (or Q416) now works as a record equalizer amplifier to provide the output from Deck [2] with its own equalizer characteristic, then drives the record/playback head.

Q413 (or Q414) works as audio muting for the output from the Deck [2] , and turns off (opens) when the set is in playback or record mode.

Bias Oscillator Block

The circuit shown in Fig. 9–1 is an erase/record bias oscillator block which oscillates at the frequency of about 85 kHz.

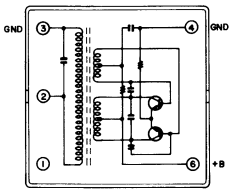


Figure 9–1 Equivalent Circuit of L415

Tape Fader Buffer Amplifier

Consisting of Q419 (or Q420), this circuit receives the signal which has resulted from a mixture of the Deck [1] and Deck [2] signals through the tape fader control VR419, and amplifies it enough to feed it to the control circuit (record level/balance/volume control). This circuit also works as an emitter follower.

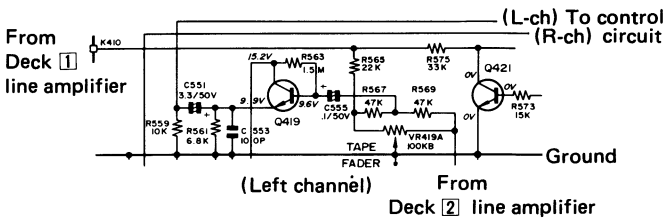


Figure 9–2

Tone Amplifier

This circuit is made up of Q425 and Q427 (or Q426 and Q428) – each being of direct-current coupling type – which form a tone drive amplifier as well as a CR type tone control.

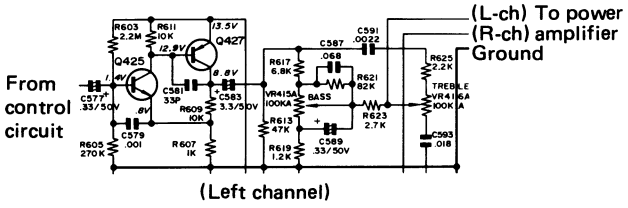


Figure 9–3

Power Amplifier

This circuit consists of IC101 which works as a one-stage differential/all-stage complementary OCL amplifier, and it amplifies the signal from the tone control circuit to feed it to the headphones jack J101 and speaker socket SO101 (or SO102).

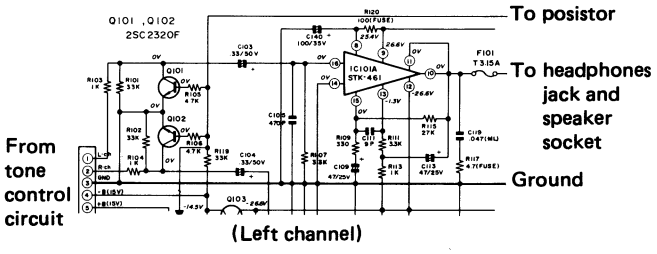


Figure 9–4

Audio Muting Circuit

The set is provided with various muting circuits and their functions are described as follows:

- Q101 and Q102: If the impedance of a speaker in connection with the speaker socket is less than specified or if the power amplifier IC101 gets in trouble, this circuit lowers the output from the speaker and amplifier.
- Q405 and Q406: This circuit prevents abnormal sound caused when APSS is put in motion during dubbing mode.
- Q421 and Q422: In record mode, this circuit shuts off the output from the Deck [1], so that the tape level meter can indicate only the Deck [2] recording level.
- Q423 and Q424: When the tuner is in action, this circuit prevents signal leakage in Deck [1] operation and that in APSS operation.
- Q429: It prevents noise from being caused when the function selector switch is set at "AM" or "FM" position.
- Q430 and Q431: When the function selector switch is in other positions than "TAPE", it prevents signal leakage in Deck [2] operation.

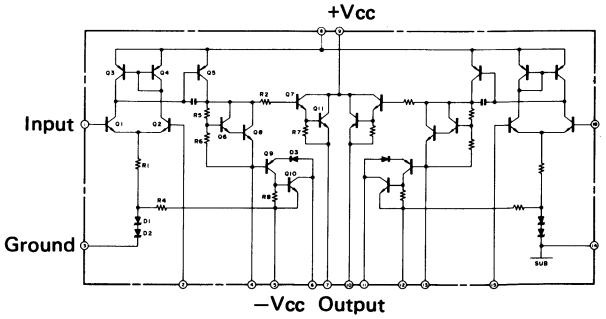


Figure 9–5 Equivalent Circuit of IC101 (STK-461)

APSS SECTION (DECK [1])

This circuit is composed of IC404 (exclusive for APSS operation), Q417 and Q418, and finds out the beginning of each program recorded on a tape to allow the set to play it back just automatically.

The signals going out of the right and left channels of the Deck [1] playback equalizer amplifier are applied to R751 and R752 to be mixed together, then entering pin ① of IC404. In APSS mode, if the tape travels to reach its non-signal recorded part, the output then available at pin ⑧ of IC404 changes from "high" to "low" level, so that Q418 turns on through Q417 and C545 to get APSS solenoid SOL1 in action: the time constant for APSS operation is determined by R547 and C544.

In addition, in playback mode, +15 V is applied via APSS switch SW3 to the base of Q417 so that the APSS drive circuit then stays inactive. The APSS drive circuit is operative for both forward APSS and reverse APSS modes.

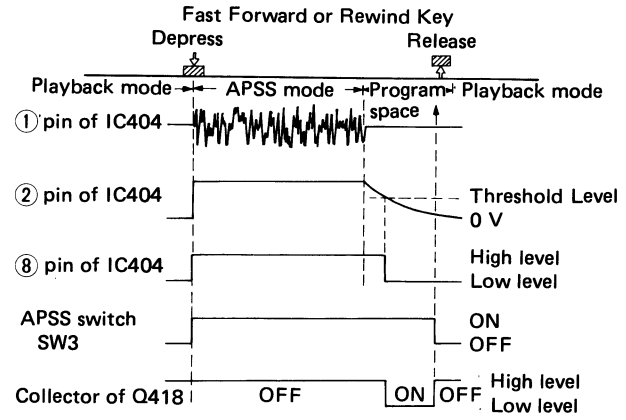


Figure 10–1 Timing Chart

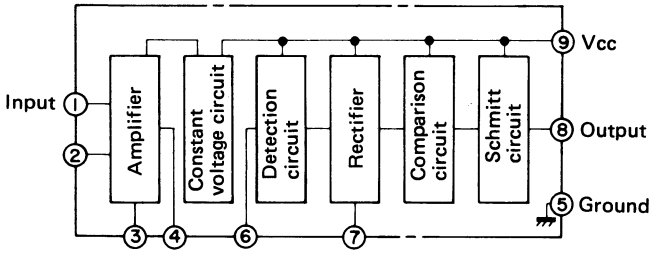


Figure 10–2 Block Diagram of IC404 (IR3108)

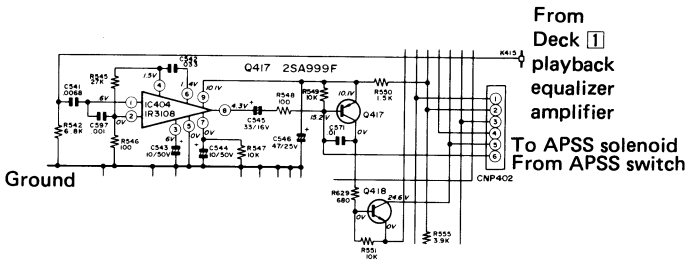


Figure 10–3

MECHANISM CONTROL SECTION

This circuit consists of Q105, Q106 and Q107, and allows simultaneous playback of Deck [1] and Deck [2] as well as successive playback from one to the other. When the Deck [1] (or Deck [2]) playback key is pushed, muting switch SW2 (or SW7) turns on to open the base-to-ground junction of Q105 (or Q106), which results in an action of the mechanism control circuit.

Cancelling of pause mode:

With the Deck [1] (or Deck [2]) in playback/pause mode, when the one-touch start button SW102 is depressed, there is pulse produced at the collector of Q107 across C128 and R129 to turn on Q105 (or Q106). Thus the pause solenoid SOL2 (or SOL3) is actuated to cancel engagement of the pause key.

* Where the Deck [1] is in playback/pause mode and Deck [2] in playback/pause or record/pause mode, both Decks start playing at a time by pushing the one-touch start button.

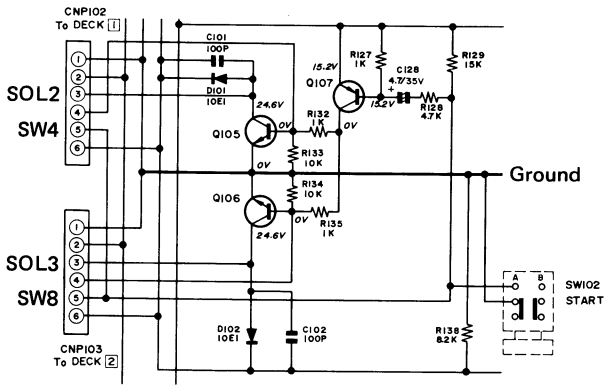


Figure 10–4

Successive playback from the Deck [1] to Deck [2] and vice versa:

Successive playback between the Decks [1] and [2] is allowed by setting the tape operation switch SW403-1 at "▬ [1] ⇄ [2]" position.

Suppose the Deck [2] is in playback/pause mode and Deck [1] in playback mode. When the Deck [1] comes to its end, the tape end switch SW4 turns on for an instant to cause pulse at the collector of Q107 as in the case of depressing the one-touch start button. Q106 is thereby turned on to actuate the Deck [2] pause solenoid, resulting in disengagement of the pause key.

In this way the Deck [2] is allowed to start playing right after the end of Deck [1] playing.

The same holds true of successive playback from the Deck [2] to Deck [1] .

MECHANICAL ADJUSTMENT

PINCH ROLLER PRESSURE ADJUSTMENT

1. Put the set in playback mode.
2. Use a tension gauge (0 to 500 grams) to press it to the specified position of the pinch roller to make the pinch roller apart from the capstan (at the time, the pinch roller stops to rotate). Then, gradually weaken a force of the tension gauge and read the value when the pinch roller begins to rotate.
   Make sure that the reading of tension gauge is 275 to 375 grams.
3. If the value is not satisfied, adjust it by bending the pinch roller pressing spring or replace the spring with a new one.

NOTE:

In playback mode, make sure there is a gap of over 0.15mm between the pinch roller lever and the sub-chassis.

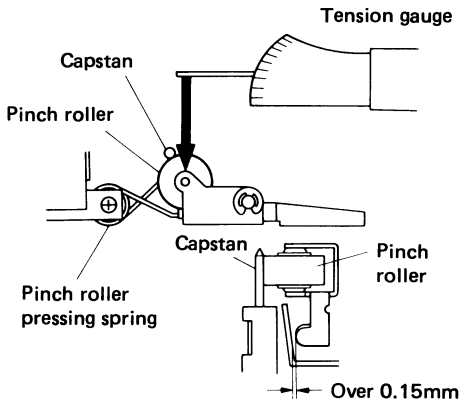


Figure 11–1

PAUSE TIMING ADJUSTMENT

1. Put the set in playback mode, then slowly depress the pause key to check the pin of the pause lever is securely locked into the pause lever lock plate.
2. Check a clearance between the pin of the pause lever and the pause lever lock plate is over 0.2mm when pause mode is cancelled.
3. Check that, when the pause lever is locked, the pinch roller and take-up idler come respectively off the capstan and take-up turntable at the same time (and that the pinch roller and take-up turntable stop simultaneously).
   If not satisfied, adjust it by bending a part (marked Ⓐ) of the pause lever shown in Fig. 11–2.

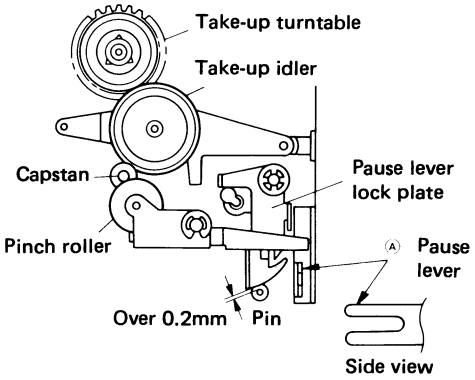


Figure 11–2

CAPSTAN THRUST CLEARANCE ADJUSTMENT

1. Slowly turn the screw for adjusting the capstan thrust clearance clockwise until there will be no thrust clearance.
2. Then, turn the screw for adjusting the capstan thrust clearance by 1/8 to 3/8 turn counter-clockwise. (Since screw's pitch is 0.8mm, thrust clearance of about 0.1mm to 0.3mm is then produced.)

TAKE-UP PULLEY POSITIONAL ADJUSTMENT

1. Put the set in playback mode.
2. Check the take-up idler is pressed against the take-up pulley as shown in Fig. 11–3.
3. If Item 2 above is not satisfied, adjust the position of the take-up pulley. (The take-up pulley is made of rubber and is movable from the capstan.)

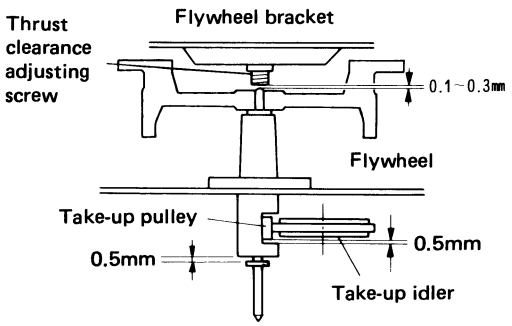


Figure 11–3

TORQUE CHECK AT PLAY, FAST FORWARD AND REWIND MODES

1. Mount a torque measuring reel on the turntable (on its take-up side at play or fast forward mode, and on its supply side at rewind mode).
2. Reduce, then, a force of the tension gauge gradually, and read the torque value when the rotational speed of the turntable becomes almost constant.
3. The torque values in each mode are as specified below.

MODE	TORQUE VALUE
Play	35 ~ 60 gram · cm
Fast Forward	70 ~ 110 gram · cm
Rewind	70 ~ 110 gram · cm

Table 11–1

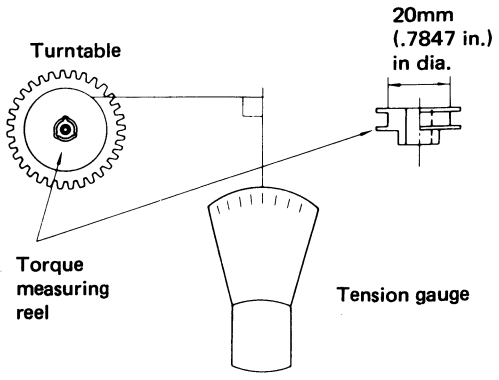


Figure 11–4

ELECTRICAL ADJUSTMENT

BIAS CURRENT ADJUSTMENT AND BIAS OSCILLATION FREQUENCY CHECK (DECK [2])

Bias Current

1. Connect VTVM between the test point TP407 for left channel (or TP408 for right channel) and ground (TP410).
2. Place the Deck [2] in record mode.
3. Adjust the semi-variable resistor VR409 for left channel (or VR410 for right channel) so that the VTVM reads as follows, according to the setting of the Deck [2] tape selector switch.

Deck [2] tape selector switch SW401-4, 5	VTVM reading (Bias current)	Adjustment	
		L-ch	R-ch
Normal	36mV (360μA)	VR409	VR410
CrO2	50±3mV (500±30μA)	---	---
Metal	72±5mV (720±50μA)	---	---

Table 12–1

Bias Oscillation Frequency

4. Set the Deck [2] tape selector switch SW401-4, 5 at "NORMAL" position, and see that the frequency counter reads 85 ± 4kHz.

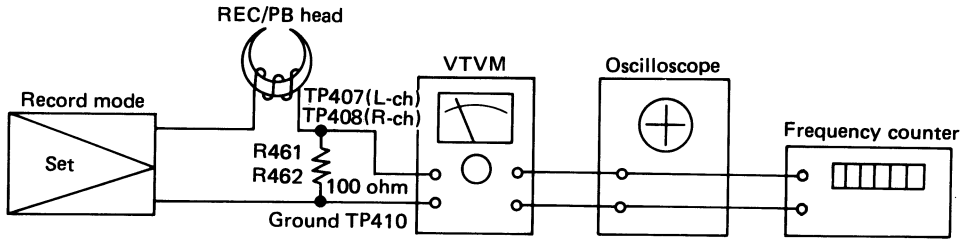


Figure 12–1

ERASE CURRENT CHECK

1. Connect VTVM between the test point TP409 and ground (TP410).
2. Place the Deck [2] in record mode, and see that the VTVM reads as follows, according to the setting the Deck [2] tape selector switch.

Deck [2] tape selector switch SW401-4, 5	VTVM reading (Erase current)
Normal	45~80mV (45~80mA)
CrO2	70~120mV (70~120mA)
Metal	120~160mV (120~160mA)

Table 12–2

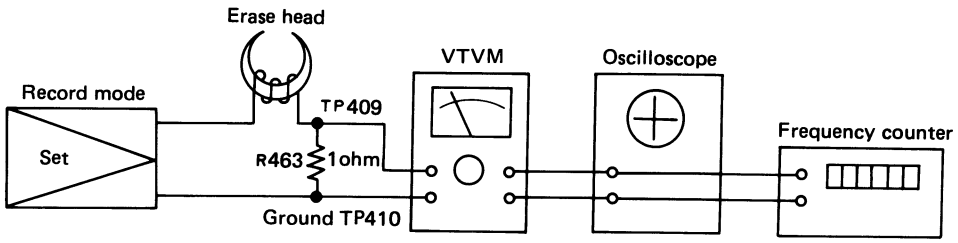


Figure 12–2

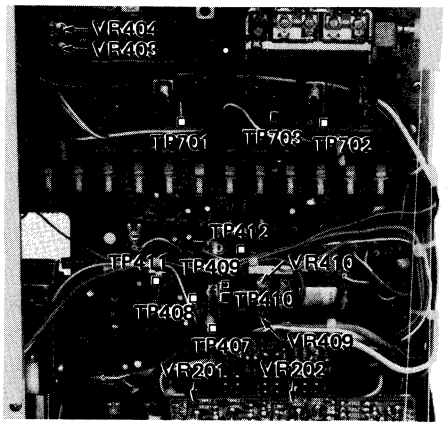


Figure 12–3 Adjustment Points

RECORD/PLAYBACK HEAD AZIMUTH ADJUSTMENT

1. Deck [1] ;
   Connect VTVM between the test point TP701 for left channel (or TP702 for right channel) and ground (TP703).
   Deck [2] ;
   Connect VTVM between the test point TP411 for left channel (or TP412 for right channel) and ground (TP410).
2. Set the volume control VR301 at "minimum" position, and tape fader VR419, balance VR414, bass VR415, and treble VR416 controls at "center" position.
3. Load a test tape MTT-114 (TEAC: 10kHz, 250pWb/mm, −10dB recorded) into the Deck [1] or Deck [2] , and play it back.
4. Adjust the head azimuth adjusting screw so that the VTVM reaches its maximum reading, with no phase difference between the channels.

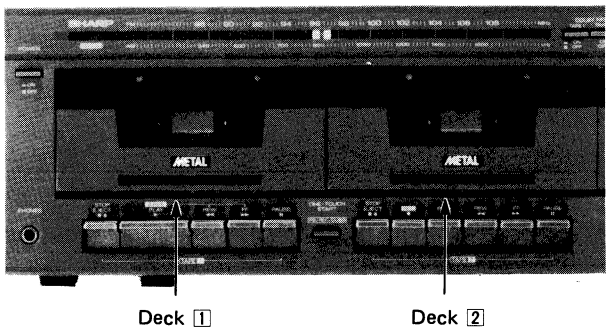


Figure 13–1 Adjustment Points

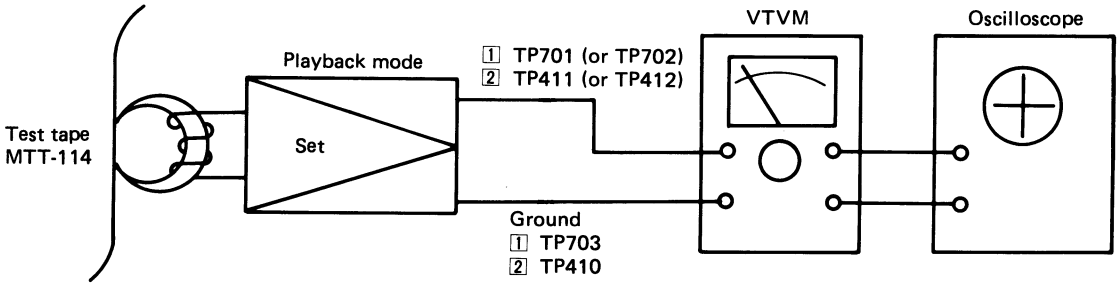


Figure 13–2

DECK [1] PLAYBACK AND LEVEL METER SENSITIVITY ADJUSTMENT

Playback Sensitivity

1. Connect VTVM between the test point TP701 for left channel (or TP702 for right channel) and ground (TP703).
2. Load the test tape MTT-150 (TEAC; 400Hz, 200pWb/mm recorded) in the Deck [1].
3. Set the Dolby NR switch SW401-1 at "OFF" position, and Deck [1] tape selector switch SW401-3 at "NORMAL" position.
4. Place the Deck [1] playback mode.
5. Adjust the semi-variable resistor VR403 for left channel (or VR404 for right channel) so that the VTVM reads 580mV.

Level Meter Sensitivity

6. At this time, semi-variable resistor VR201 for left channel (or VR203 for right channel) so that the 0dB LED of level meter lights up.

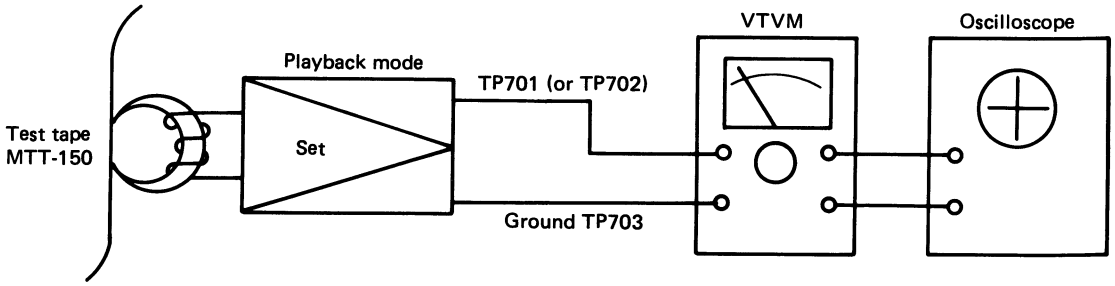


Figure 13–3

DUBBING SENSITIVITY ADJUSTMENT

1. Connect VTVM between the test point TP411 for left channel (or TP412 for right channel) and ground (TP410).
2. Set the dubbing switch SW403-2 at "ON" position, and Dolby NR switches SW401-1 and SW401-2 at "OFF" position.
3. Load a test tape MTT-150 (TEAC; 400Hz, 200pWb/mm recorded) in the Deck [1] .
4. Place the Deck [1] in playback mode and Deck [2] in record mode, then, adjust the semi-variable resistor VR417 for left channel (or VR418 for right channel) so that VTVM reads 580 mV.

DECK [2] PLAYBACK AND LEVEL METER SENSITIVITY ADJUSTMENT

Playback Sensitivity

1. Connect VTVM between the test point TP411 for left channel (or TP412 for right channel) and ground (TP410).
2. Load the test tape MTT-150 (TEAC; 400Hz, 200pWb/mm recorded) in the Deck [2] .
3. Set the Dolby NR switch SW401-1 at "OFF" position, and Deck [2] tape selector switch SW401-4, 5 at "NORMAL" position.
4. Place the Deck [2] in playback mode.
5. Adjust the semi-variable resistor VR405 for left channel (or VR406 for right channel) so that the VTVM reads 580mV.

Level Meter Sensitivity

6. At this time, adjust the semi-variable resistor VR202 for left channel (or VR204 for right channel) so that the 0dB LED of level meter lights up.

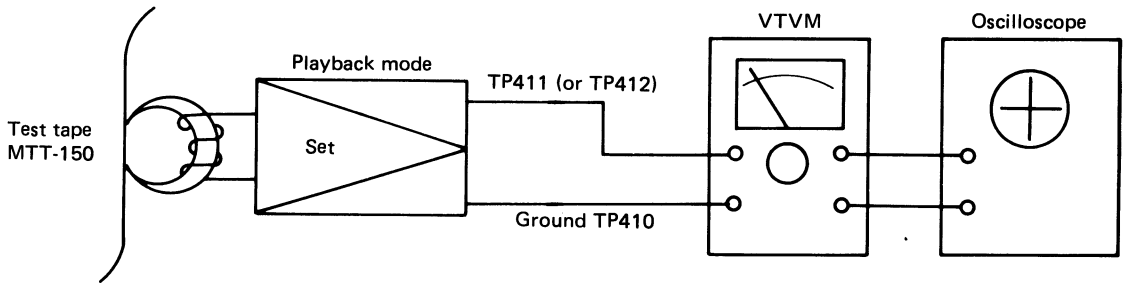


Figure 14–1

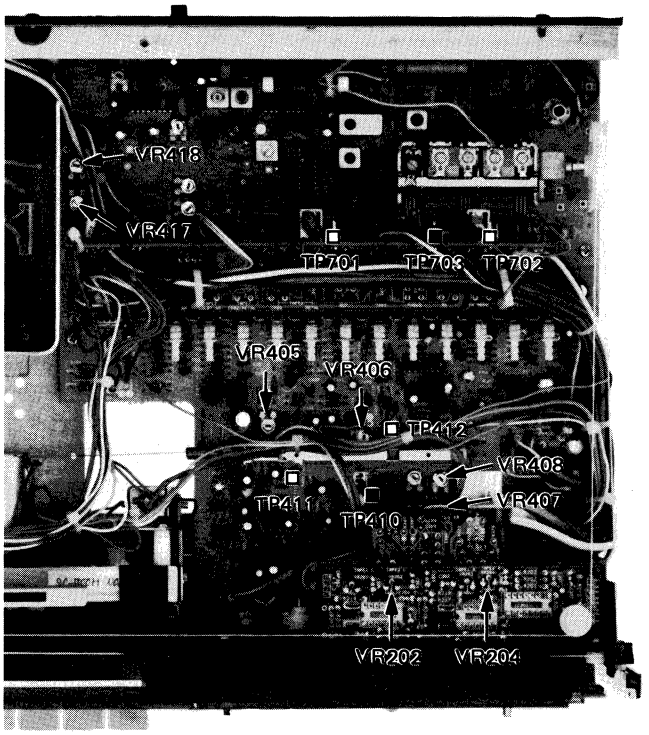


Figure 14–2 Adjustment Points

DECK [2] RECORD AND PLAYBACK SENSITIVITY ADJUSTMENT

1. Connect VTVM between the test point TP411 for left channel (or TP412 for right channel) and ground (TP410).
2. Set the Dolby NR switch SW401-2 at "OFF" position, and function selector switch SW401-6 ~ 11 at "AUX" position.
3. Load the normal tape (non-recorded) in the Deck [2].
4. Connect CR oscillator to the auxiliary socket SO403, and apply signals (1 kHz, −10dB) to the unit.
5. Place the Deck [2] in record mode, and adjust the record level control VR411 for left channel (or VR412 for right channel) so that the VTVM reads 150mV.
6. Reproduce the tape which has been recorded at the above step 5, and adjust the semi-variable resistor VR407 for left channel (or VR408 for right channel) so that the VTVM reads 150mV.
7. See that the VTVM reads as follows according to the setting of the Deck [2] tape selector switch.

Tape	Deck [2] tape selector switch		VTVM reading
	SW401-4	SW401-5	
CrO2	CrO2	OFF	150±18mV
Metal	---	ON	

Table 15–1

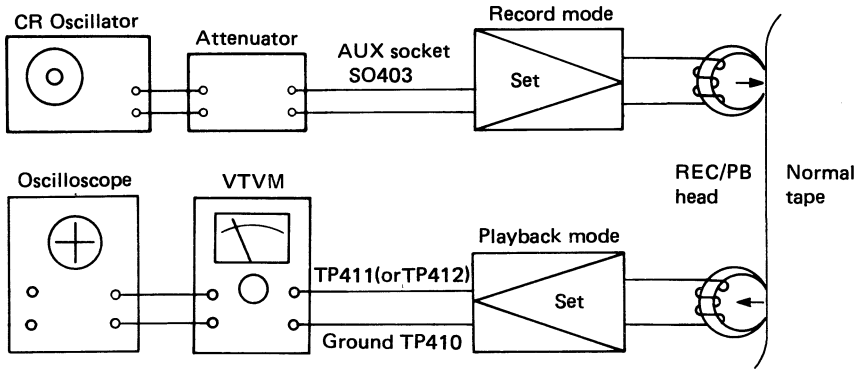


Figure 15–1

DOLBY NR CIRCUIT CHECK

Deck [1]

1. Connect the input side of CCIR/ARM network between the test point TP701 for left channel (or TP702 for right channel) and ground (TP703), and its output side to VTVM.
2. Place the Deck [1] in playback mode, and turn on and off the Deck [1] Dolby NR switch SW401-1 to see that the indication difference of VTVM be over 8.5dB.

Deck [2]

3. Connect the input side of CCIR/ARM network between the test point TP411 for left channel (or TP412 for right channel) and ground (TP410), and its output side to VTVM.
4. Place the Deck [2] in playback mode and turn on and off the Deck [2] Dolby NR switch SW401-2 to see that the indication difference of VTVM be over 8.5dB.
5. Set the function selector switches SW401-6 to SW401-11 at "AUX" position, and the record level control VR411 for left channel (or VR412 for right channel) at "maximum" position.
6. Place the Deck [2] in record mode, and turn on and off the Deck [2] Dolby NR switch SW401-2 to see that the indication difference of VTVM be below 1.5dB.

Note:

If you are out of the CCIR/ARM network, the circuit shown by Fig. 15–3 can be used instead.

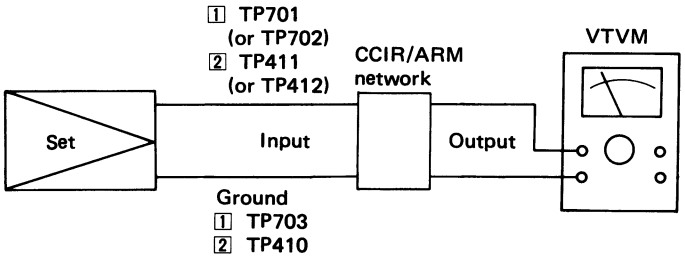


Figure 15–2

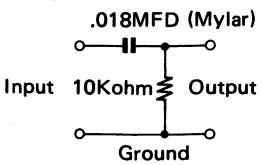


Figure 15–3

TAPE SPEED ADJUSTMENT

1. Connect a frequency counter, across a 4 ohm resistor, to the speaker socket SO101 for left channel (or SO102 for right channel).

Deck [1]

2. Load a test tape MTT-111 (3 kHz) into the Deck [1] , and play the middle part of the tape.
3. Adjust the semi-variable resistor situated in the motor so that the frequency counter indicates within 2980 to 3010 Hz.

Deck [2]

4. Next, load the said test tape into the Deck [2] , and play the middle part of the tape.
5. Adjust the semi-variable resistor situated in the motor so that the frequency counter indicates the value 0 to 30Hz lower than that available in step 3 above.

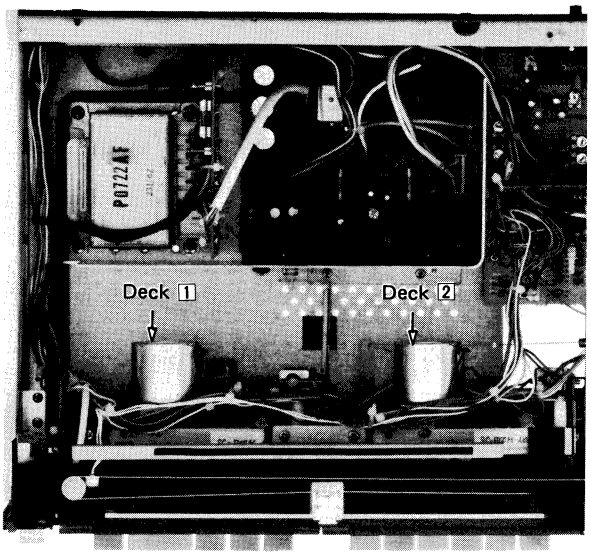


Figure 16–1 Adjustment Points

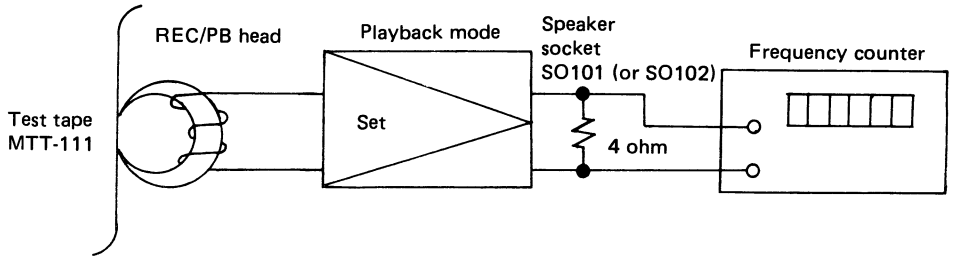


Figure 16–2

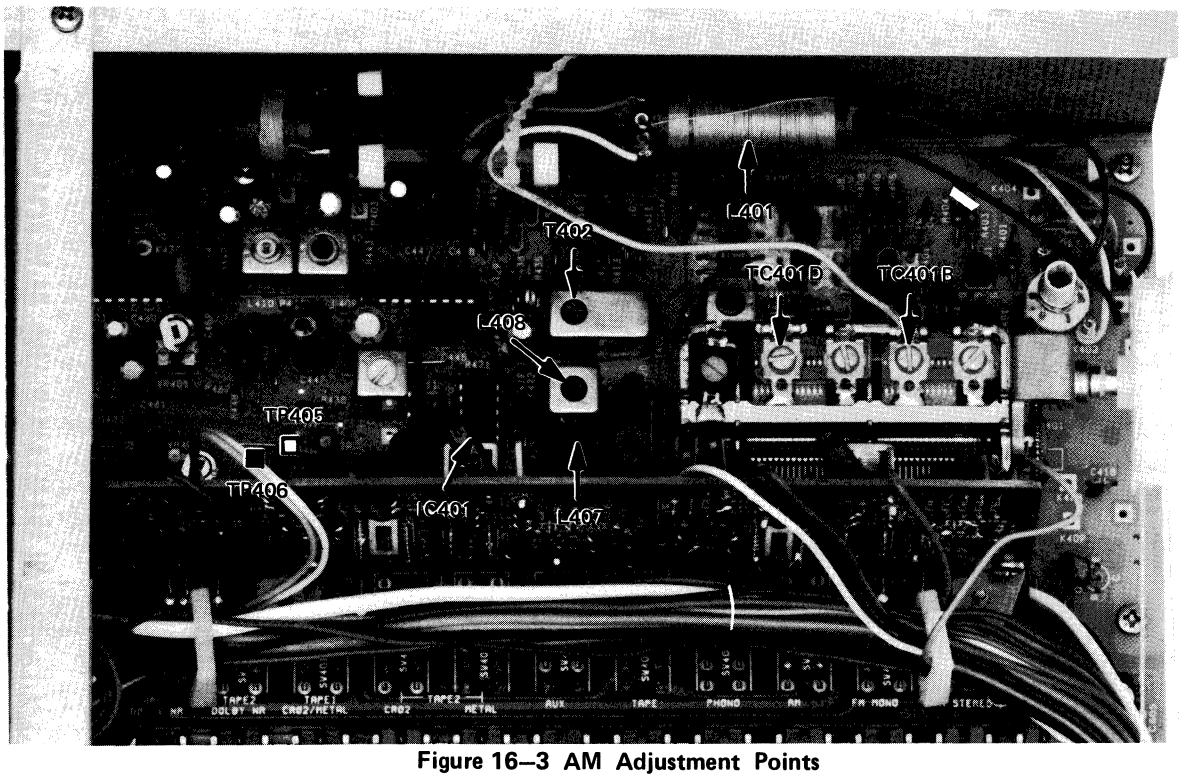


Figure 16–3 AM Adjustment Points

THE INSTRUCTION OF FREQUENCY ADJUSTMENT (SC-700H Only)

In order to comply with FTZ rule: Nr. 358/1970, please fix the low end of dial frequency (87.6MHz) and the high end of dial frequency (108MHz) on FM band, by adjusting oscillation coils (L406) and oscillation trimmer (TC401E), respectively, as illustrated in Figure 22–1.

AM IF/RF ALIGNMENT

• Set the function selector switch SW401-6～11 at "AM" position.

PROCEDURE NUMBER	TEST STAGE	SWEEP GENERATOR		DIAL POINTER SETTING	METER CONNECTION	ADJUSTMENT	REMARKS
		CONNECTION	FREQUENCY				
1	IF	Thru 0.01μF to IC401 (2 pin) as small as possible	455 kHz 468kHz (for UK) (400Hz, 30% AM Modulated)	High end of Dial	Connect oscilloscope between TP405 and ground (TP406)	The IF waveform should be as large as possible, as well as symmetrical to the left and right. T402	For L407, the should be turned completely counterclockwise, and left in that position.
2		Same as above	Same as above	Same as above	Same as above	L407	Adjust the peak of the *fo* oscilloscope waveform to be as low as possible.
3	Band Coverage	Connect AM signal generator to the loop antenna and place this assembly at near the bar antenna coil (L401) (Keep the input be closed as much as possible).	515 kHz (400Hz, 30% AM Modulated)	Low end of Dial	Connect VTVM between TP405 and ground (TP406)	Oscillation Coil L408	Adjust for maximum output
4		Same as above	1650 kHz (400Hz, 30% AM Modulated)	High end of Dial	Same as above	Oscillation Trimmer TC401D	Same as above.
5	Tracking	Same as above	1400 kHz (400Hz, 30% AM Modulated)	Tuning in 1400 kHz	Same as above	Antenna Trimmer TC401B	Same as above.
6		Same as above	600 kHz (400Hz, 30% AM Modulated)	Tuning in 600 kHz	Same as above	Antenna Coil L401	Same as above.
7	Repeat steps 3, 4, 5 and 6 until no further improvement can be made.						

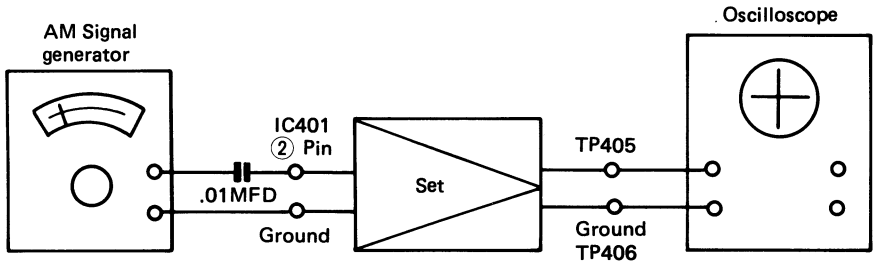


Figure 17–1 AM IF Adjustment

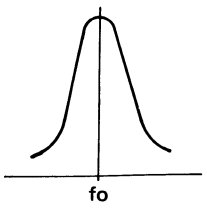


Figure 17–2 AM IF Curve

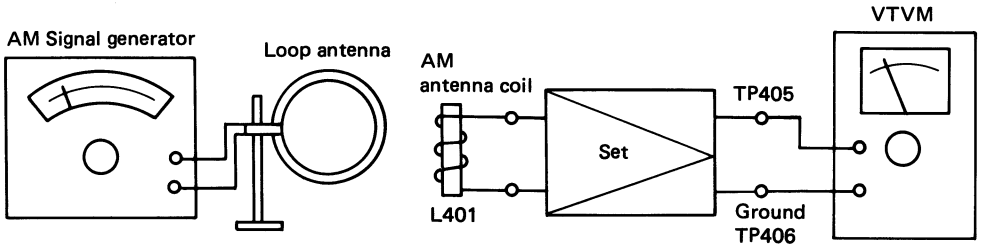


Figure 17–3 AM RF Adjustment

FM IF/RF ALIGNMENT

• Set the function selector switch SW401-6~11 at "FM MONO" position.

PROCEDURE NUMBER	TEST STAGE	SIGNAL GENERATOR		DIAL POINTER SETTING	METER CONNECTION	ADJUSTMENT	REMARKS
		CONNECTION	FREQUENCY				
1	IF	Connect FM sweep generator, through 6PF capacitor, to the test point TP401 Connect the ground to the shield plate	10.7MHz (400Hz, 40kHz dev., FM Modulated) (as small as possible)	High end of Dial	Connect oscilloscope between the test point TP402 and ground.	T401	Rotate the core of T401 to adjust so that the waveform becomes symmetrical in right and left and attains the maximum in height and width (Fig. 18–2)
2		Same as above	Same as above	Same as above	Connect oscilloscope between the test point TP402 and ground.	L410	Rotate the core of L410 to adjust so that the waveform becomes symmetrical in right and left and attains the maximum in height and width (Fig. 18–4)
3	Detector	Same as above	Same as above	Same as above	Same as above	L409 L410	Rotate the core to adjust so that the waveform becomes symmetrical in the upper and lower with best linearity. (Fig. 18–4)
4	Repeat the step 1, 2 and 3 until no further improvement can be made.						
5	Band Coverage	Connect FM signal generator to the FM antenna socket SO401. (Keep the input be closed as much as possible)	87.0MHz (400Hz,40kHz FM Modulated) as small as possible	Low end of Dial	Connect VTVM between the test point TP402 and ground	Oscillation Coil L406	Adjust for maximum output
6		Same as above	109 MHz (400Hz, 40kHz FM Modulated) as small as possible	High end of Dial	Same as above	Oscillation Trimmer TC401E	Same as above
7	Tracking	Same as above	90 MHz (400Hz, 40kHz FM Modulated) as small as possible	Tuning in 90 MHz	Same as above	Antenna Coil L402 and RF Coil L403	Same as above
8		Same as above	106 MHz (400Hz, 40kHz FM Modulated) as small as possible	Tuning in 106 MHz	Same as above	Antenna Trimmer TC401A and RF Trimmer TC401C	Same as above
9	Repeat the steps 5, 6, 7 and 8 until no further improvement can be made.						

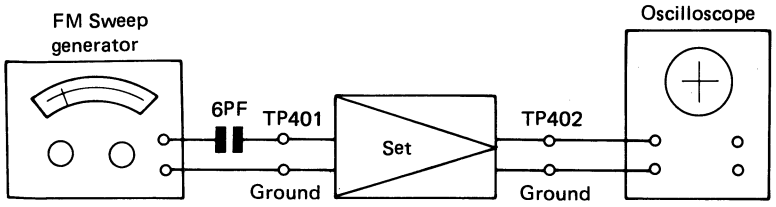


Figure 18–1 FM IF Adjustment

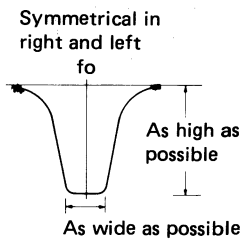


Figure 18–2 FM IF Curve

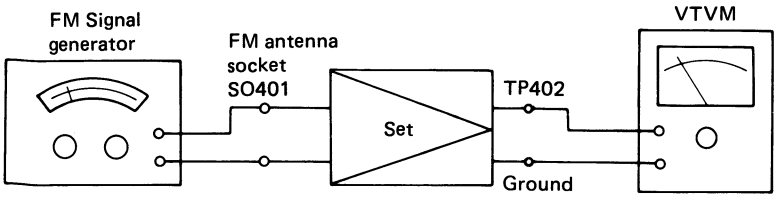


Figure 18–3 FM RF Adjustment

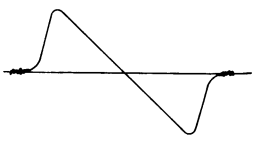


Figure 18–4 FM "S" Curve

FM MUTING LEVEL ADJUSTMENT

• Set the function selector switch SW401-6~11 at "FM MONO" position, and FM muting switch at "ON" position.

PROCE-DURE NUMBER	SIGNAL GENERATOR		DIAL POINTER SETTING	METER CONNECTION	ADJUSTMENT	REMARKS
	CONNECTION	FREQUENCY				
1	Connect FM signal generator to the FM antenna socket SO401	98 MHz (400Hz, 40kHz dev., 20dB input)	Tuning in 98 MHz	Connect VTVM between the test point TP402 and ground	VR420	Adjust for minimum output (0 V)

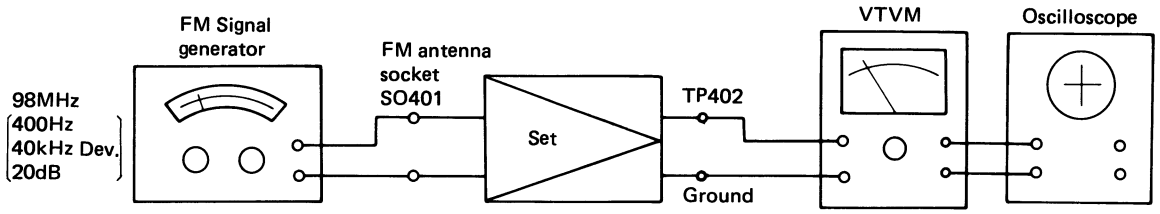


Figure 19–1 FM Muting Adjustment

FM STEREO VCO AND SEPARATION ADJUSTMENT

1) Connect FM signal generator, through a dummy resistor of 300 ohms, to the FM antenna terminal of the set.
2) Set the function selector switch SW401-6~11 at "FM STEREO" position.
3) Set the frequency of FM signal generator to 98 MHz (40kHz deviation, 1000 Hz) and the output to 60dB (mono signal).
4) Connect VTVM between the test point TP404 and ground, and a frequency counter to the output terminal of VTVM. Make the test point TP402 and ground of the set be connected (shorted). Rotate the semi-variable resistor VR401 to adjust so that the frequency counter will read 19 0.1kHz. (After the adjustment; reset the connection between the test point TP402 and ground).
5) Connect FM stereo modulator to FM signal generator. At the time, the following should be set; modulation frequency; 1 kHz (L+R; 20 kHz, L−R; 20 kHz, pilot (19 kHz); 6 kHz deviation).
6) Set the frequency of FM signal generator to 98 MHz and its output to 60dB, and tune the set in this signal. Set the modulator so as to cause modulation only in left-channel and consider the output of left-channel as 0dB. Connect VTVM to the output terminal (right-channel side only) of the set and adjust semi-variable resistor VR402 so that the separation becomes maximum (the output leaking to the opposite channel is minimized). Take the above procedures also for checking the separation of right-channel, then, adjust so that the separation of both channels will be equal to each other.

[If without the frequency counter, proceed with the alignment as follows. While receiving a FM stereo signal, turn the VR401 until the PLL will be locked (when it is locked, the stereo indicator will be lit). Then, reversely turn the VR401 halfway and fix it.]

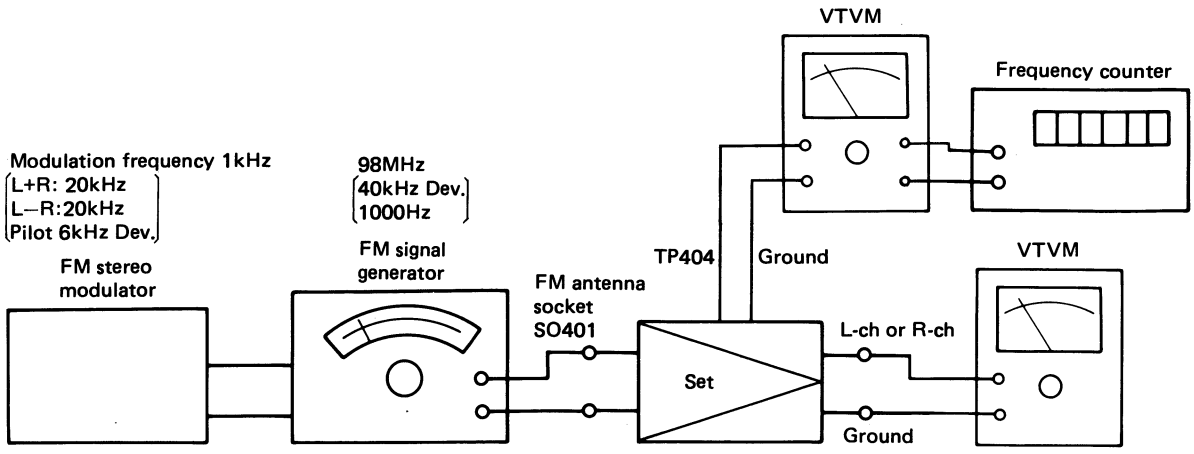


Figure 19–2 FM Stereo Adjustment

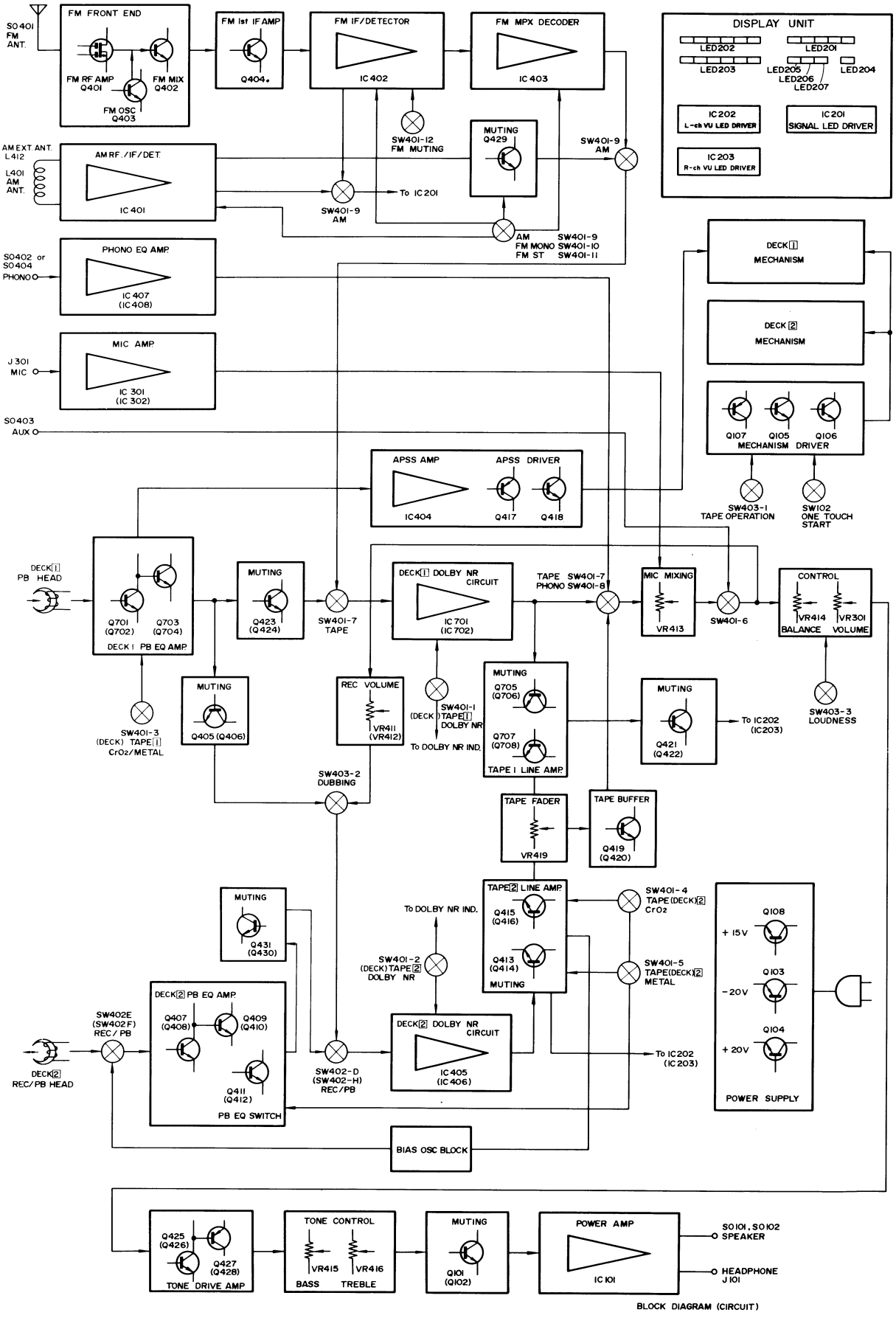


Figure 20–1 BLOCK DIAGRAM (CIRCUIT)

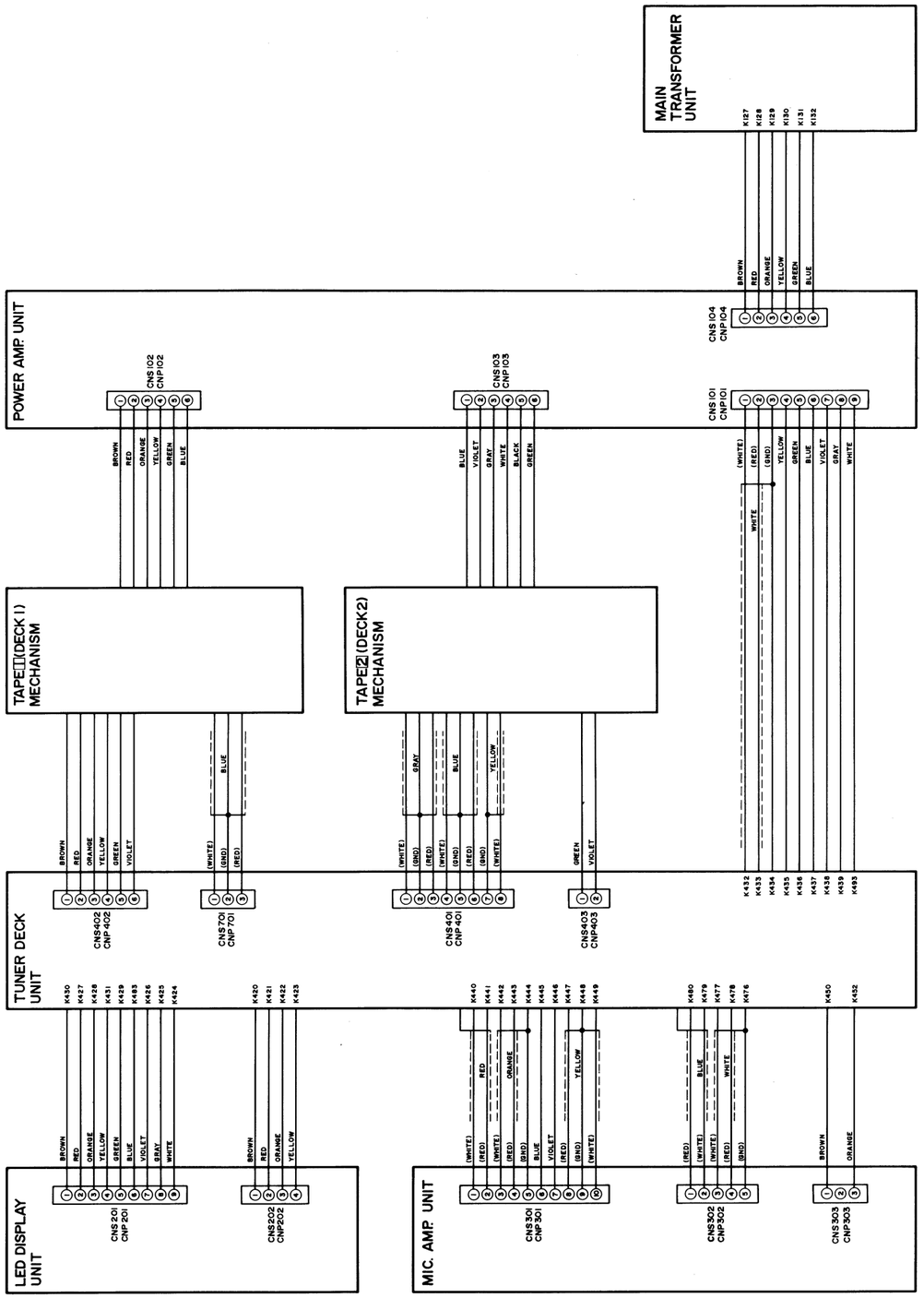


Figure 21–1 BLOCK DIAGRAM (CONNECTOR)

NOTES ON SCHEMATIC DIAGRAM

1. Resistor: To differentiate the units of resistors, such symbols as K and M are used: the symbol K means 1000 ohm and the symbol M means 1000K ohm and the resistor without any symbol is ohm-type resistor. Besides, the one with "Fuse" is a fusible type.
2. Capacitor: To indicate the unit of capacitor, a symbol P is used; this symbol P means micro-microfarad and the unit of the capacitor without such symbol is microfarad. As to electrolytic capacitor, the expression "capacitance/withstand voltage" is used;
3. The indicated voltage in each section is the one measured by VTVM between such a section and the chassis with no signal being given.

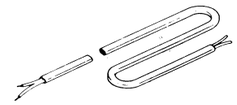
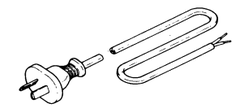
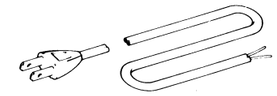
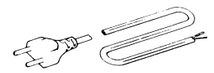
Mains supply cord	Bushing	Connection		Figure
		Ⓐ	Ⓑ	
QACCB0052AF09	LBSHC0002AGZZ	Brown	Blue	
QACCL0051AFZZ	LBSHC0004AGZZ	Brown	Light blue	
QACCV0001AGZZ	LBSHC0004AGZZ	Brown	Light blue	
QACCZ0002TA0F	LBSHC0053AFZZ	Brown	Brown	
QACCZ0053AF00	LBSHC0053AFZZ	Black	Black	

Table 22–1 Mains Supply Cord Wiring Connection

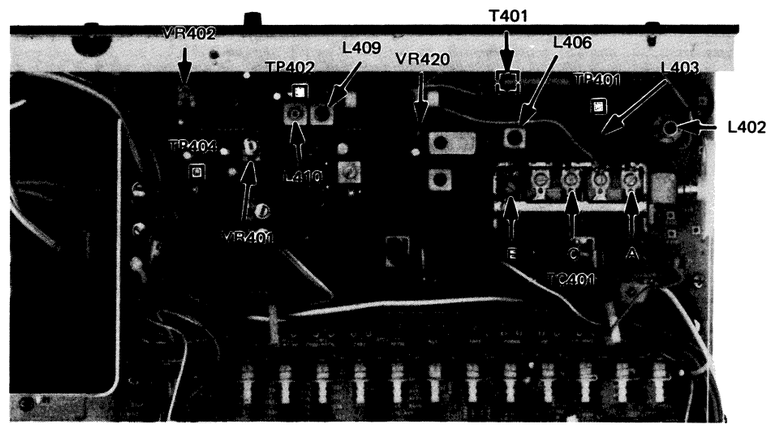
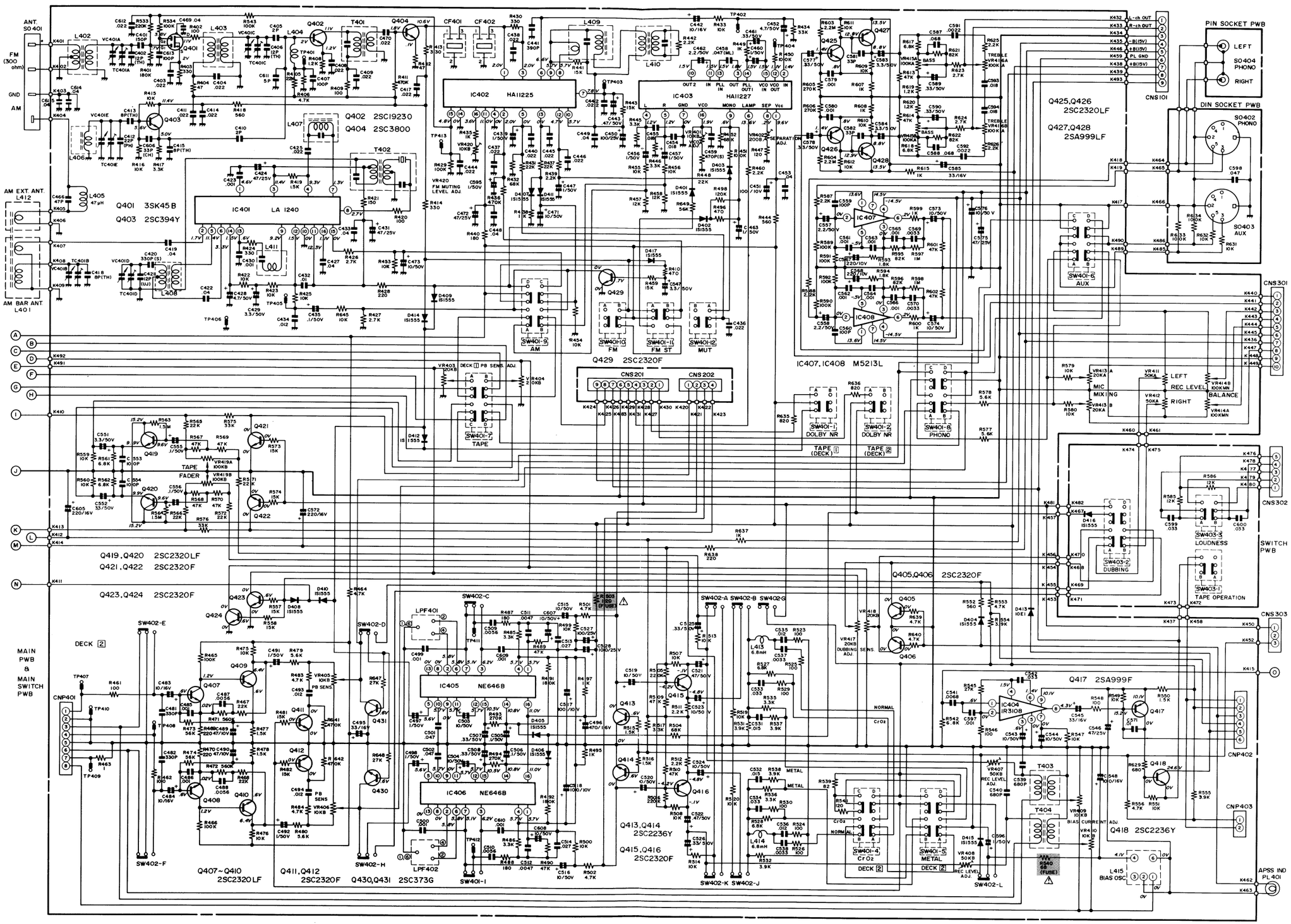


Figure 22–1 FM Adjustment Points



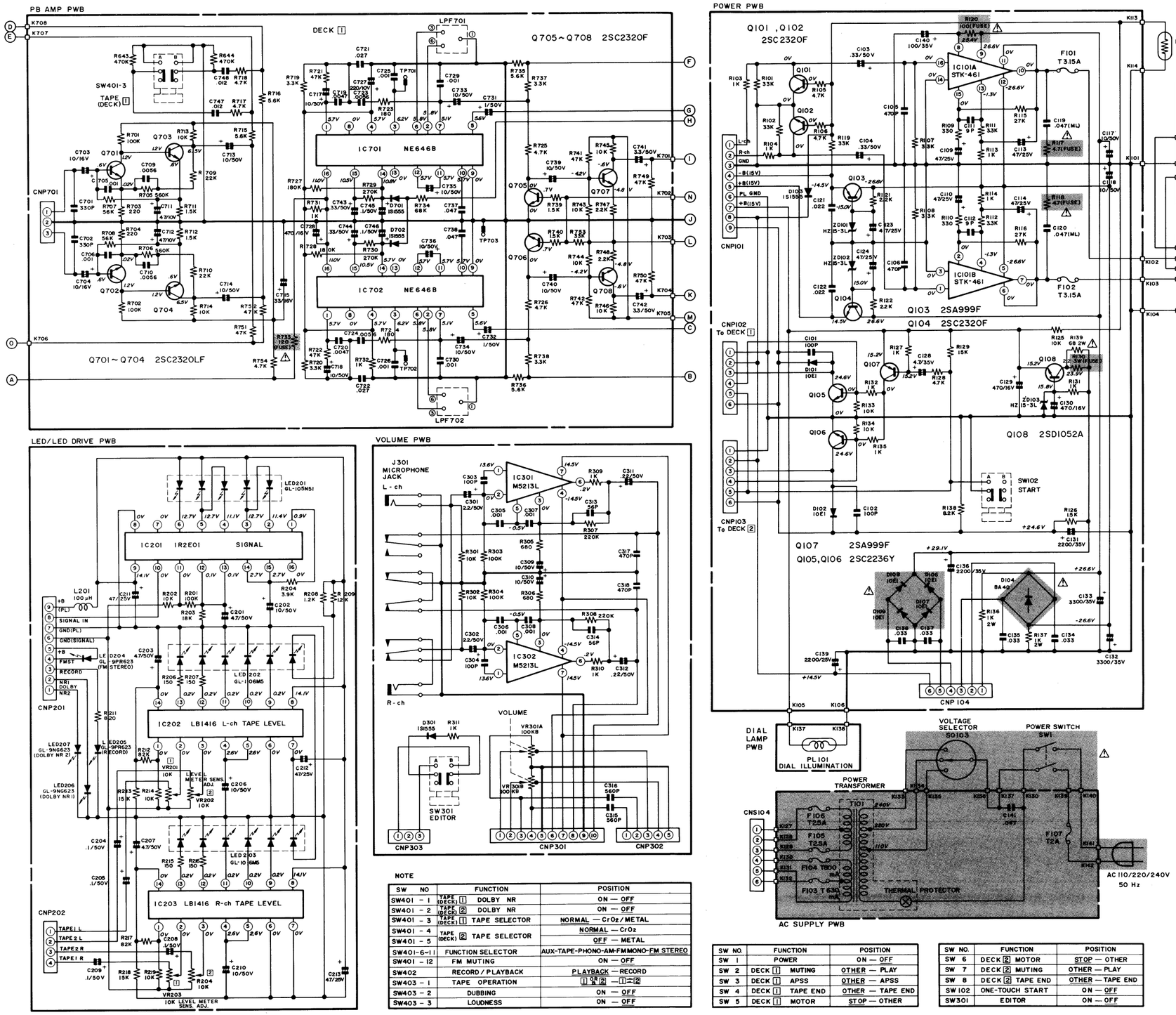
(Specifications or wiring diagrams of this model are subject to change for the improvement without prior notice.)

Figure 23–1 SCHEMATIC DIAGRAM (1/2)

NOTES:

Parts marked with "⚠" (▭) are important for maintaining the safety of the set.

Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.



NOTE

SW NO	FUNCTION	POSITION
SW401 - 1	TAPE (DECK) 1 DOLBY NR	ON — OFF
SW401 - 2	TAPE (DECK) 2 DOLBY NR	ON — OFF
SW401 - 3	TAPE (DECK) 1 TAPE SELECTOR	NORMAL — CrO2 / METAL
SW401 - 4	TAPE (DECK) 2 TAPE SELECTOR	NORMAL — CrO2
SW401 - 5		OFF — METAL
SW401-6-11	FUNCTION SELECTOR	AUX-TAPE-PHONO-AM-FM MONO-FM STEREO
SW401 - 12	FM MUTING	ON — OFF
SW402	RECORD / PLAYBACK	PLAYBACK — RECORD
SW403 - 1	TAPE OPERATION	1 OR 2 — 1=2
SW403 - 2	DUBBING	ON — OFF
SW403 - 3	LOUDNESS	ON — OFF

SW NO.	FUNCTION	POSITION
SW 1	POWER	ON — OFF
SW 2	DECK 1 MUTING	OTHER — PLAY
SW 3	DECK 1 APSS	OTHER — APSS
SW 4	DECK 1 TAPE END	OTHER — TAPE END
SW 5	DECK 1 MOTOR	STOP — OTHER

SW NO.	FUNCTION	POSITION
SW 6	DECK 2 MOTOR	STOP — OTHER
SW 7	DECK 2 MUTING	OTHER — PLAY
SW 8	DECK 2 TAPE END	OTHER — TAPE END
SW102	ONE-TOUCH START	ON — OFF
SW301	EDITOR	ON — OFF

(Specifications or wiring diagrams of this model are subject to change for the improvement without prior notice.)

Figure 25–1 SCHEMATIC DIAGRAM (2/2)

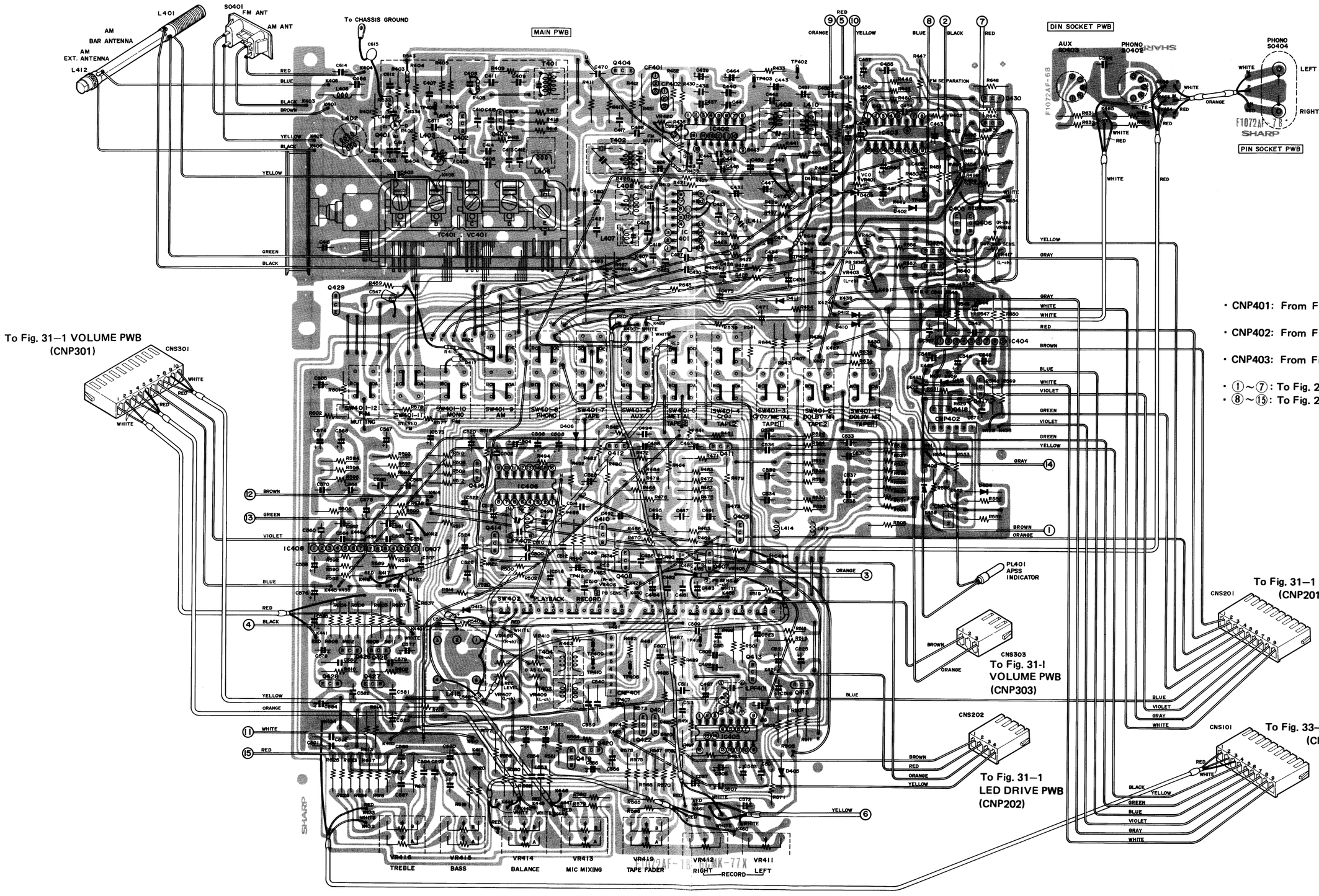


Figure 27–1 WIRING SIDE OF PRINTED WIRING BOARD (1/4)

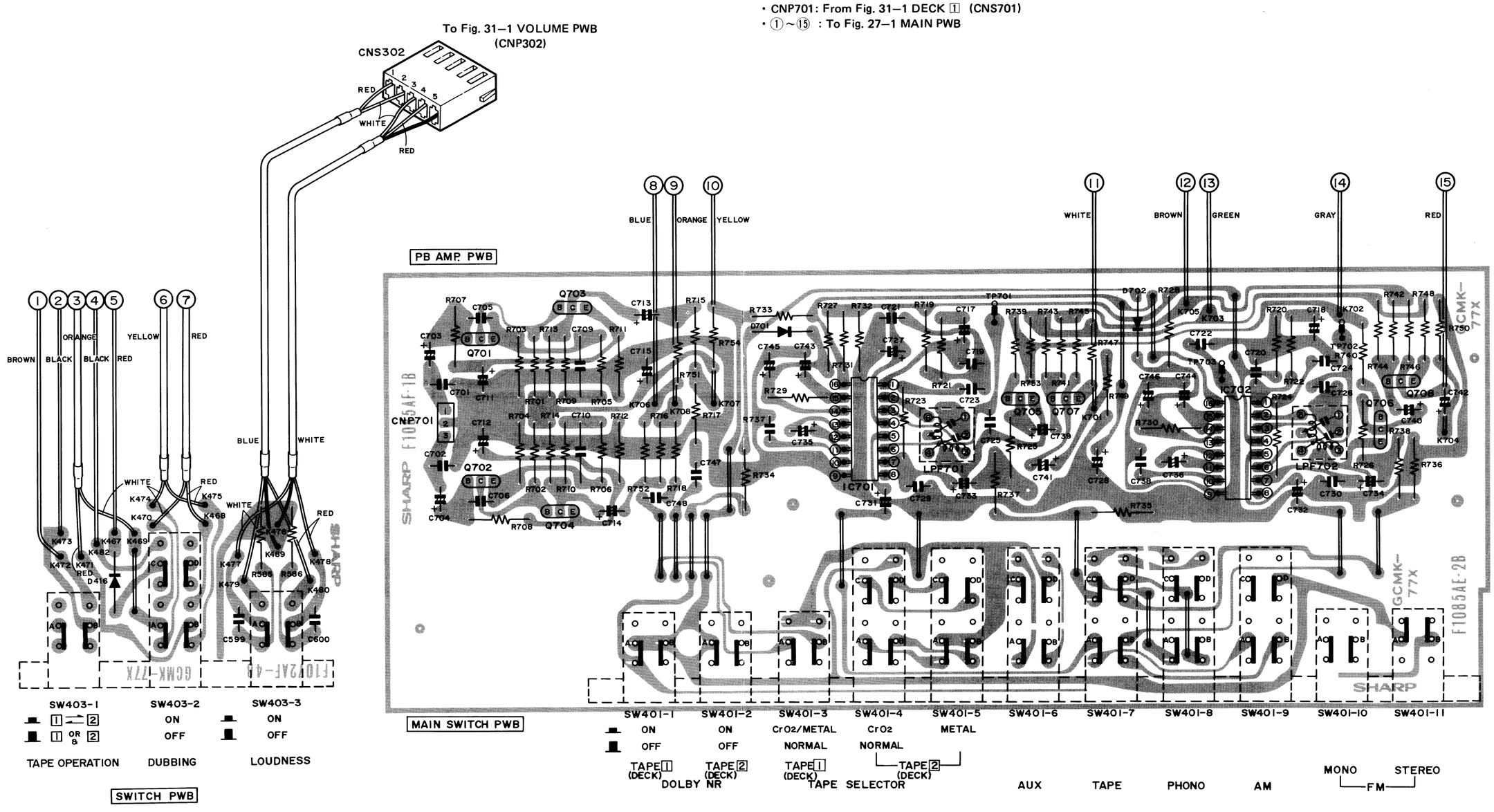
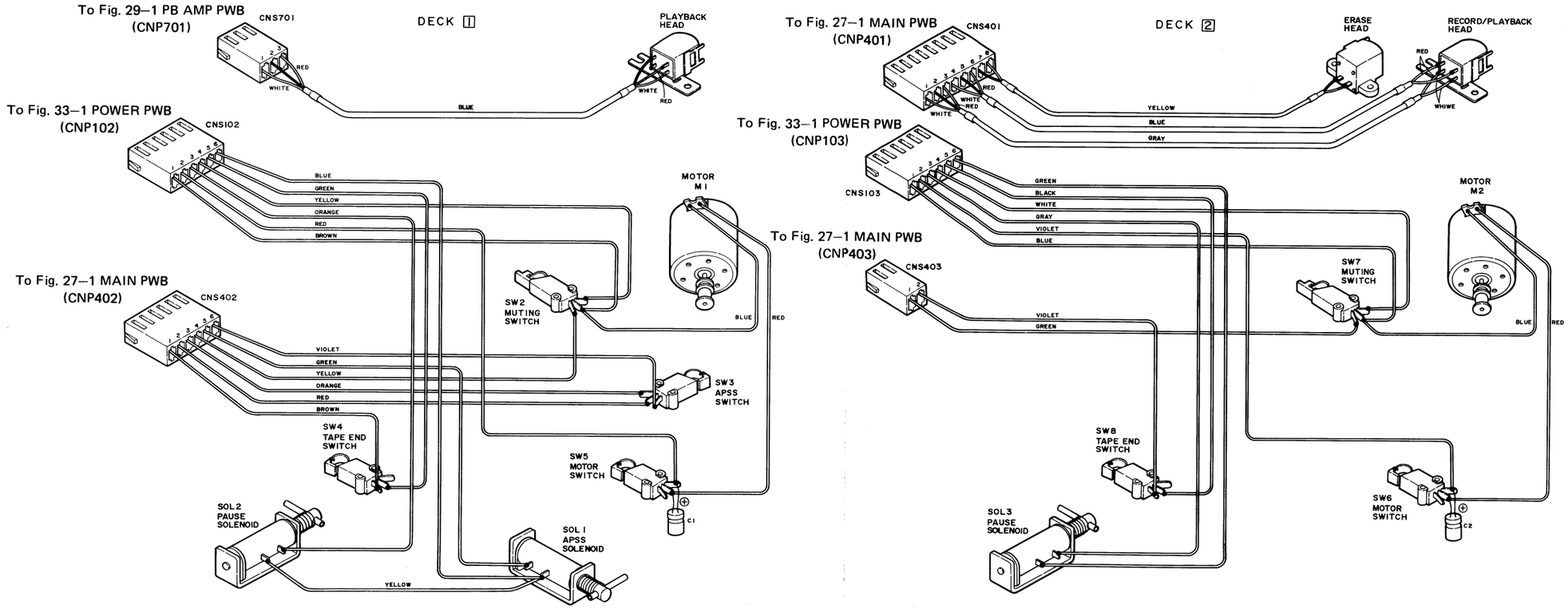
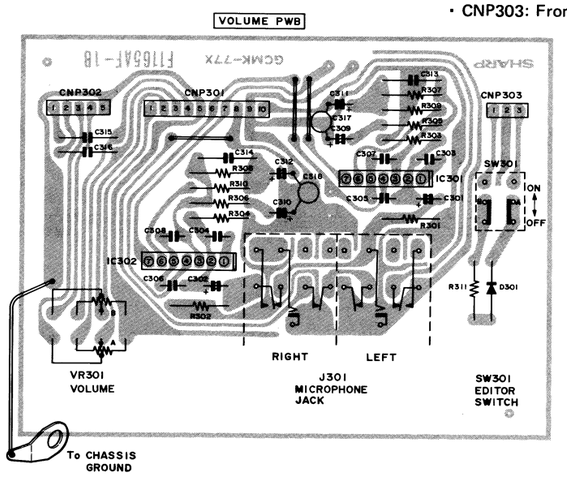


Figure 29–1 WIRING SIDE OF PRINTED WIRING BOARD (2/4)



- CNP201: From Fig. 27–1 MAIN PWB (CNS201)
- CNP202: From Fig. 27–1 MAIN PWB (CNS202)
- CNP301: From Fig. 27–1 MAIN PWB (CNS301)
- CNP302: From Fig. 29–1 SWITCH PWB (CNS302)
- CNP303: From Fig. 27–1 MAIN PWB (CNS303)



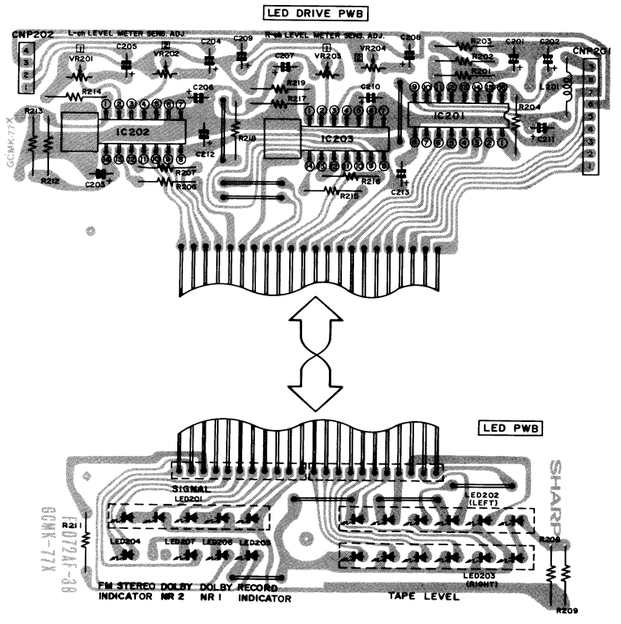


Figure 31–1 WIRING SIDE OF PRINTED WIRING BOARD (3/4)

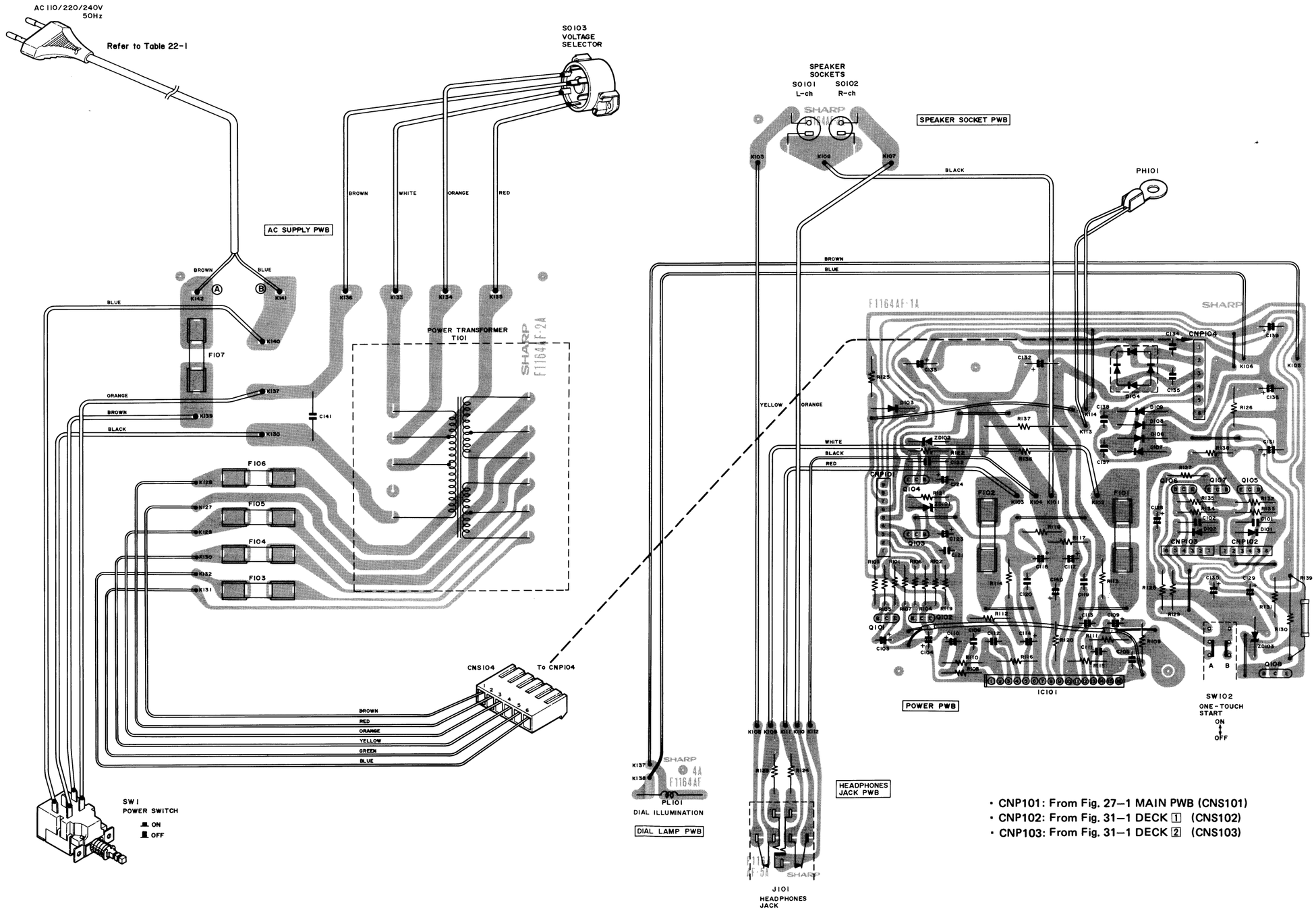


Figure 33–1 WIRING SIDE OF PRINTED WIRING BOARD (4/4)

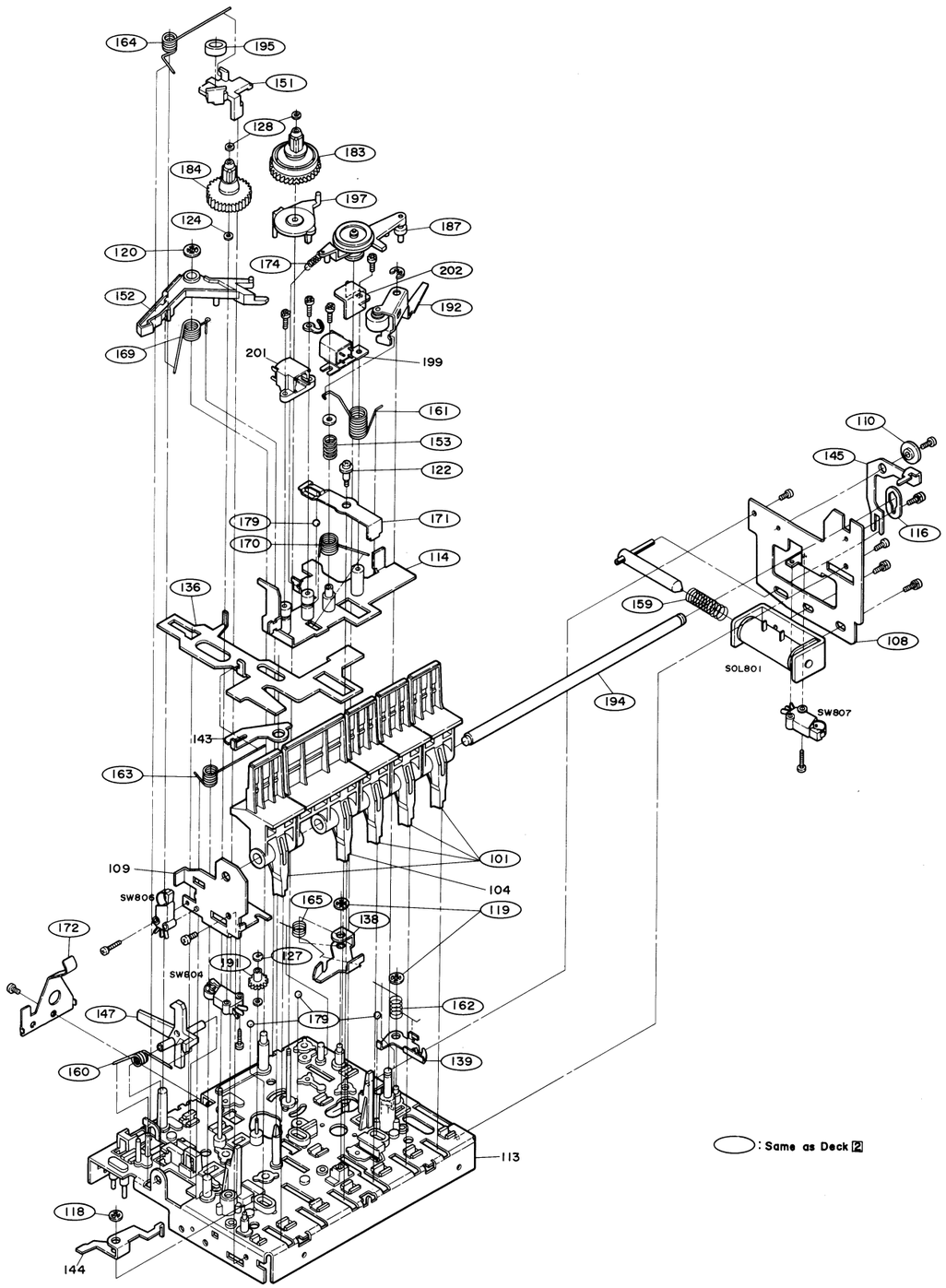


Figure 35–1 DECK 1 MECHANISM EXPLODED TOP VIEW

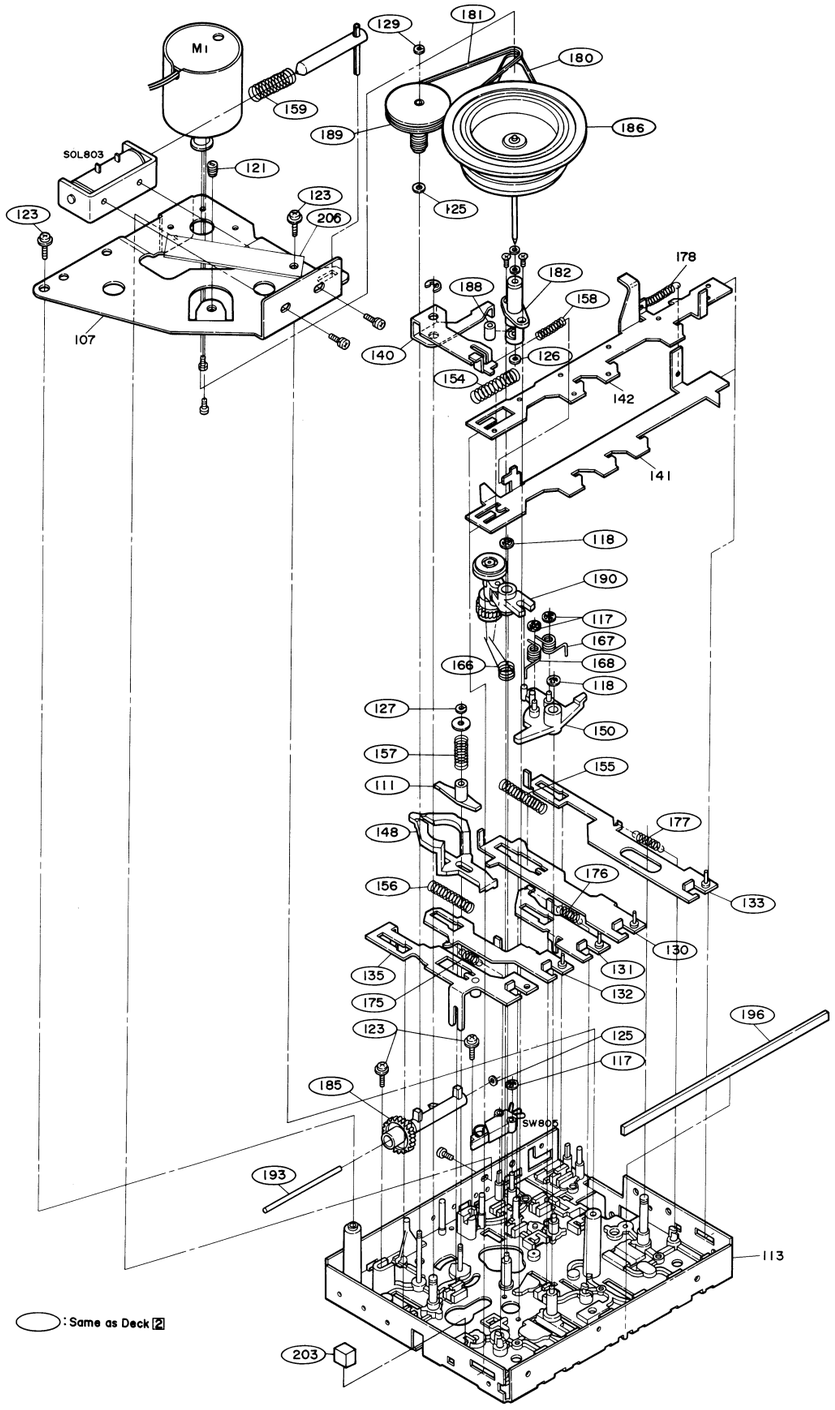


Figure 36–1 DECK 1 MECHANISM EXPLODED BOTTOM VIEW

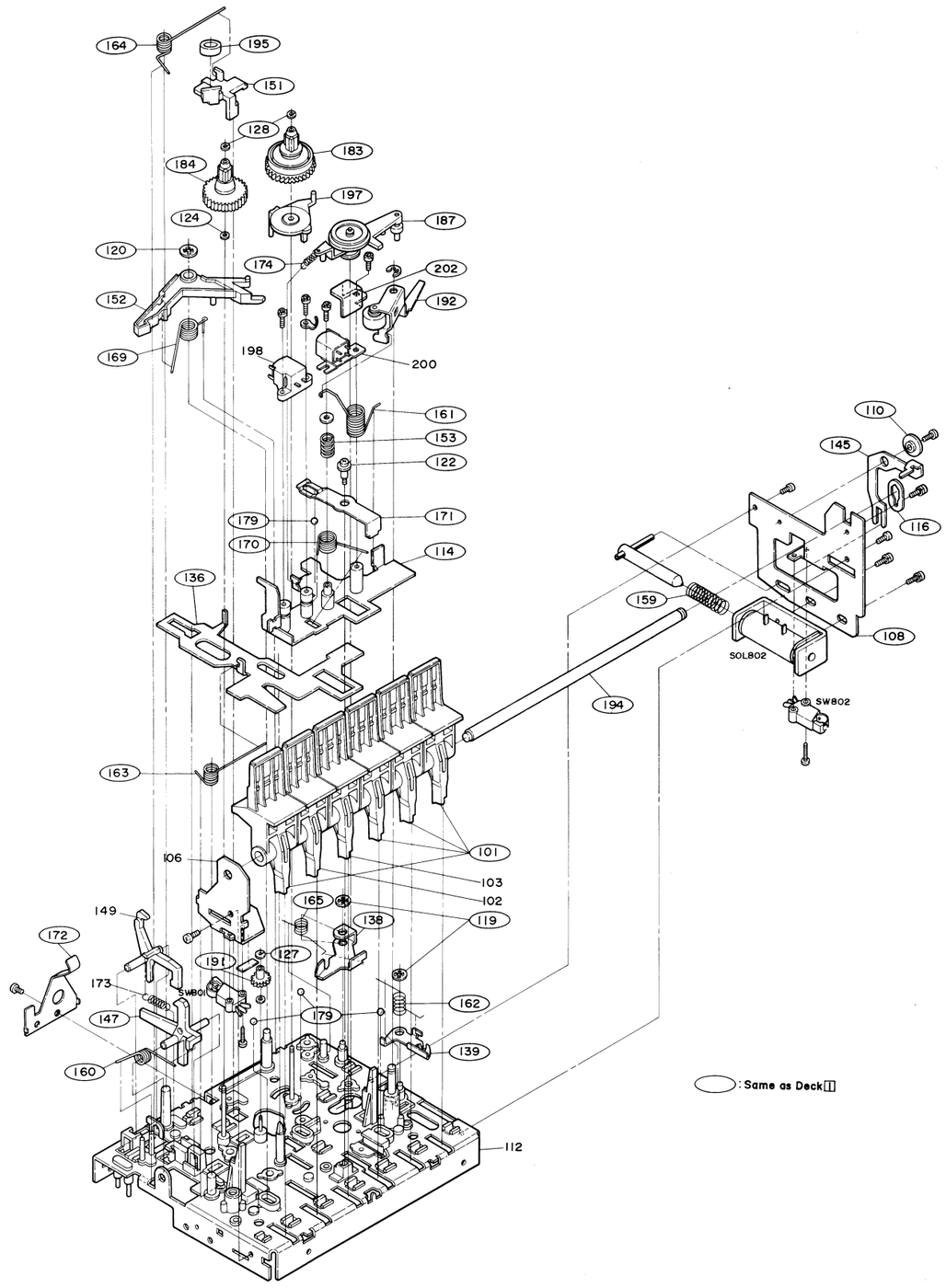


Figure 37–1 DECK 2 MECHANISM EXPLODED TOP VIEW

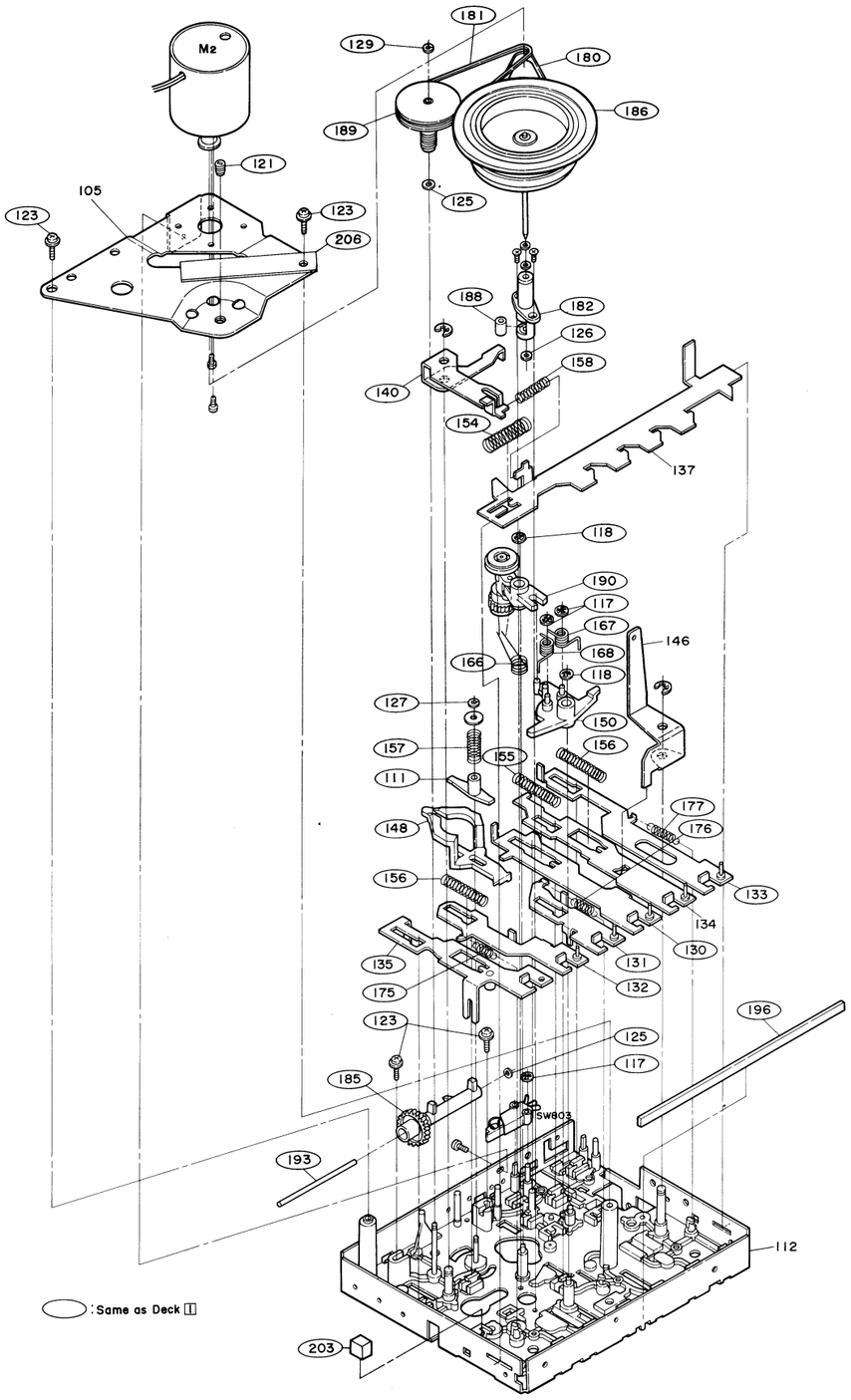


Figure 38–1 DECK 2 MECHANISM EXPLODED BOTTOM VIEW

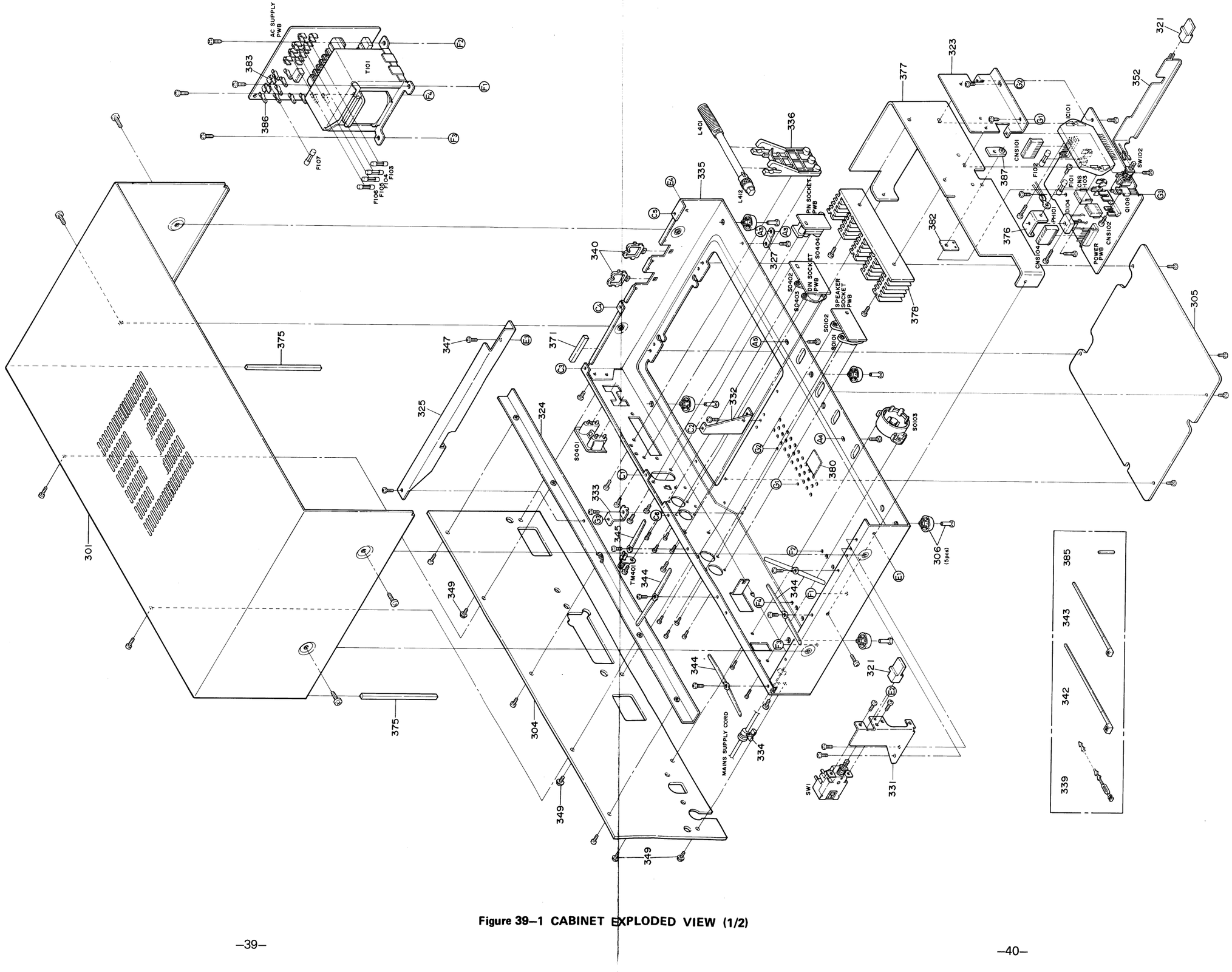


Figure 39–1 CABINET EXPLODED VIEW (1/2)

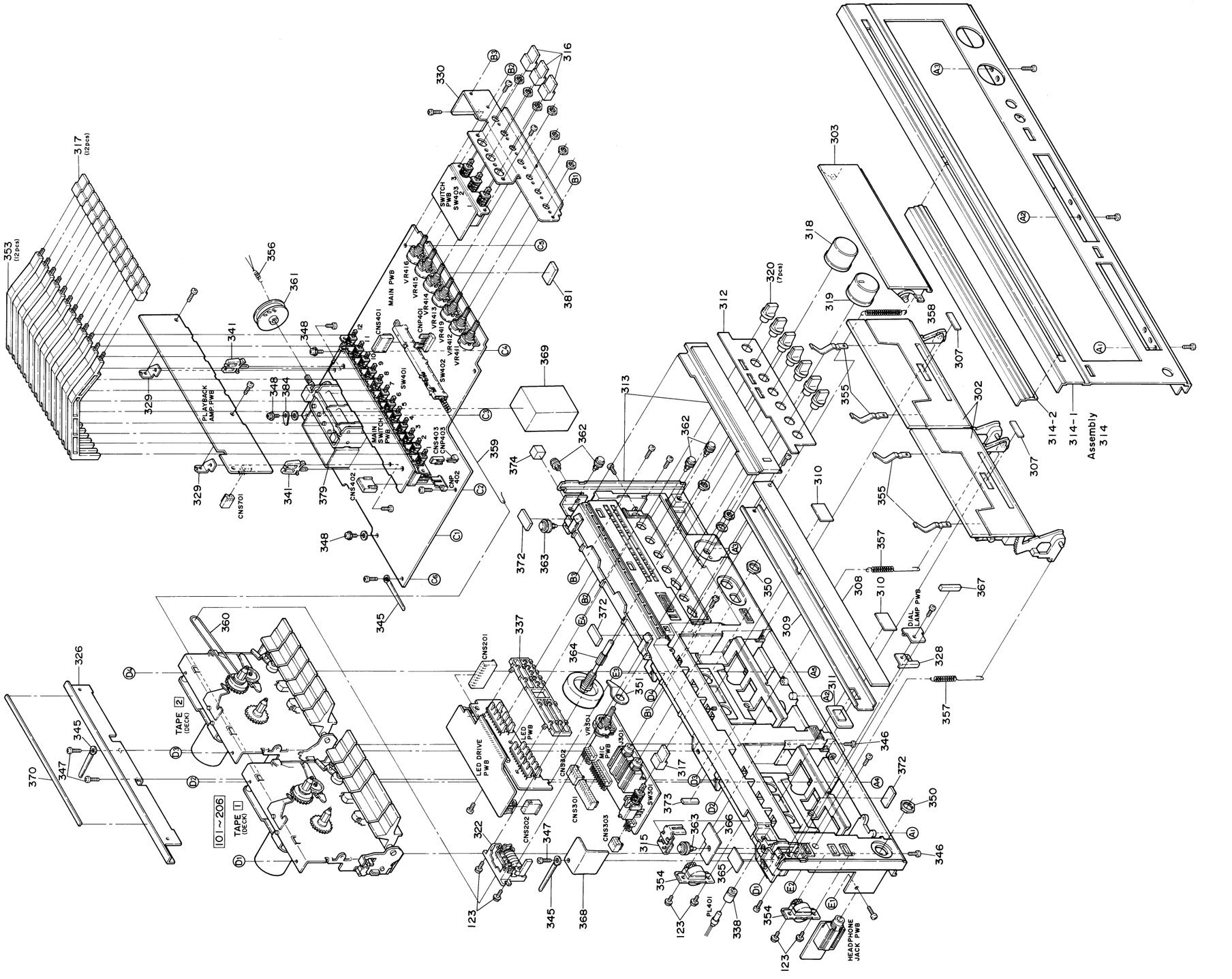


Figure 41–1 CABINET EXPLODED VIEW (2/2)

VHIIR2E01//-1 (IR2E01)

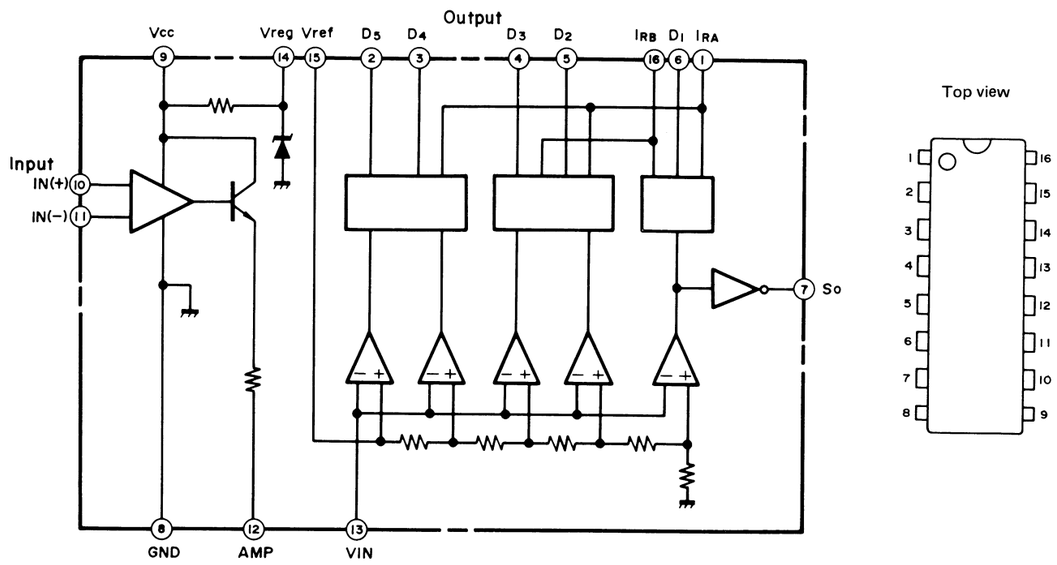


Figure 43–1 BLOCK DIAGRAM OF IC201

VHILB1416//-1 (LB1416)

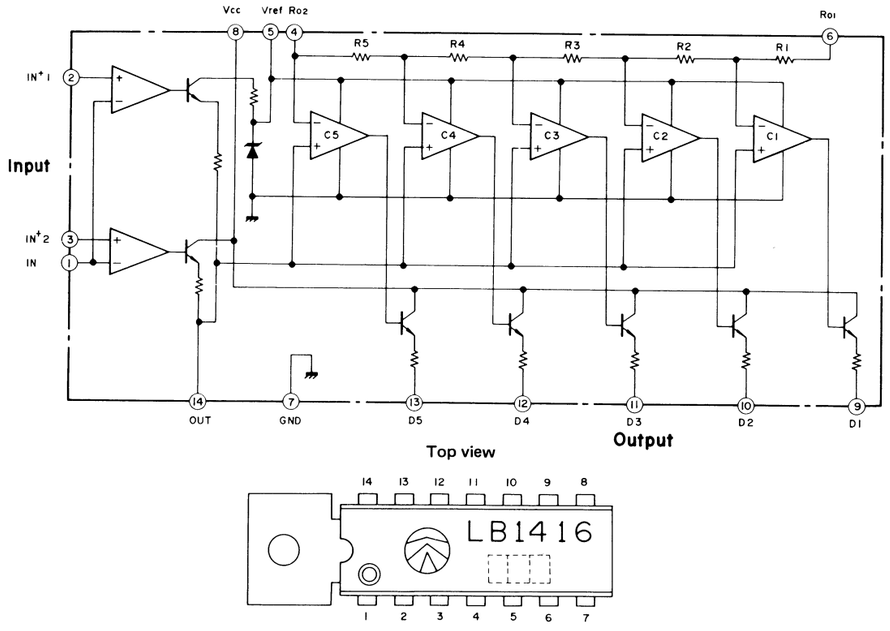


Figure 43–2 BLOCK DIAGRAM OF IC202 AND IC203

VHILA1240//-1 (LA1240)

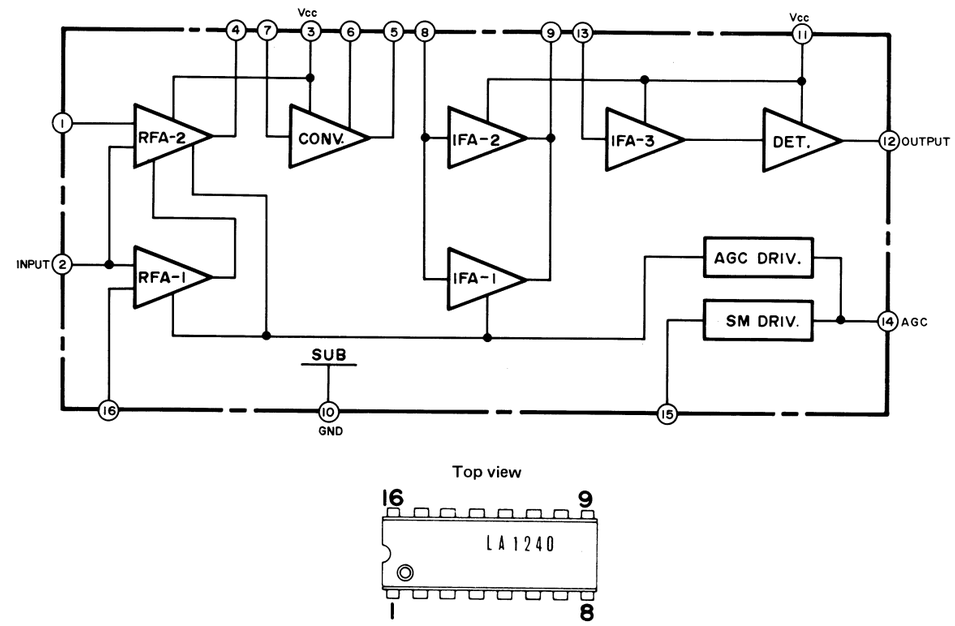


Figure 44–1 BLOCK DIAGRAM OF IC401

VHIHA11225/-1 (HA11225)

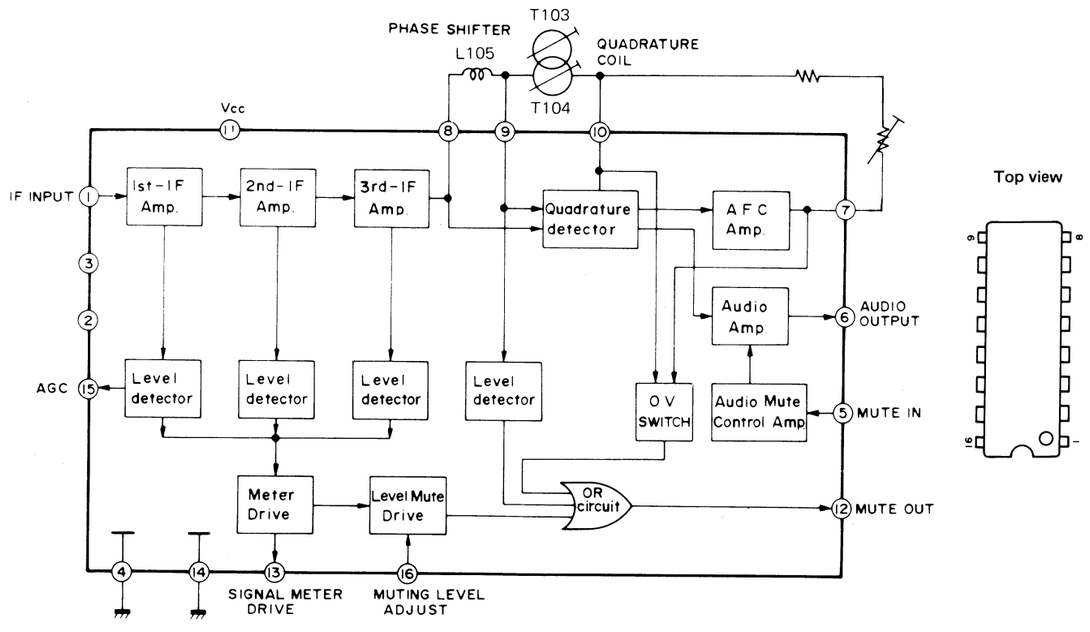
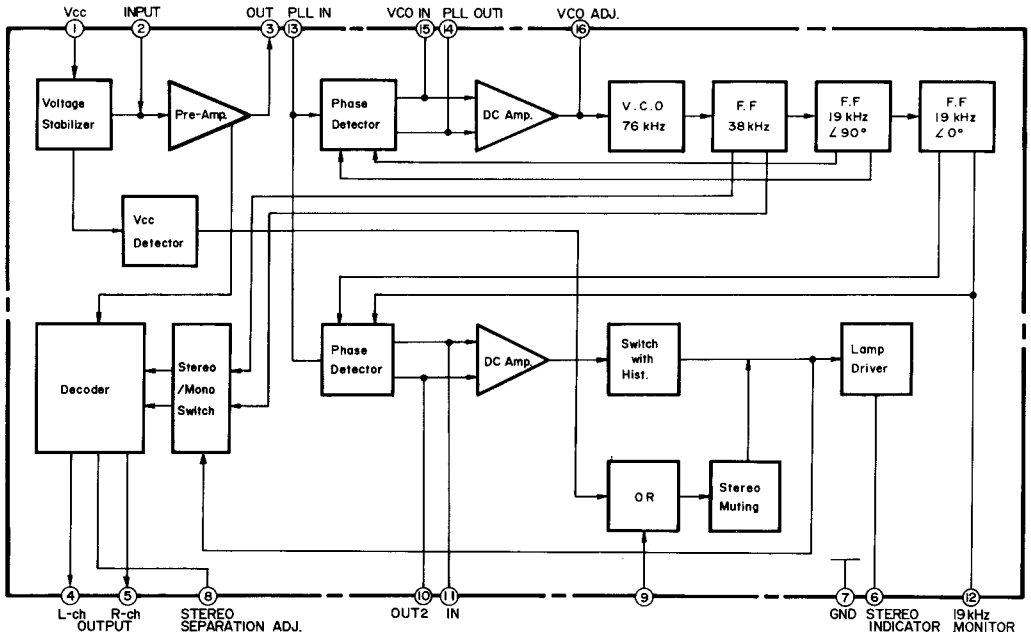


Figure 44–2 BLOCK DIAGRAM OF IC402

RH-IX1080AFZZ (HA11227)



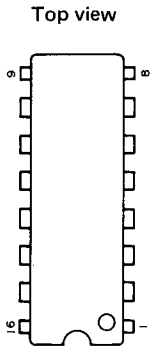
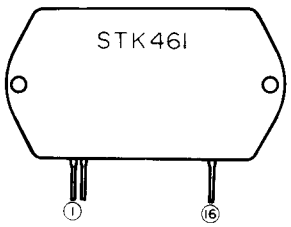


Figure 45–1 BLOCK DIAGRAM OF IC403

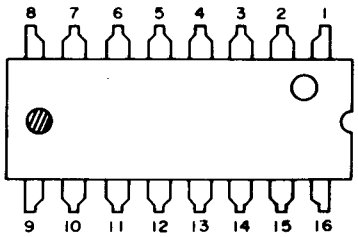
VHISTK-461/-2 (STK-461): See Fig. 9–5

Front view



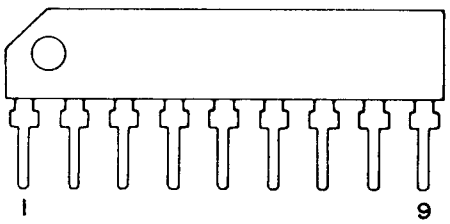
VHINE646B//1F (NE646B): See Fig. 8–3

Top view



VHIIR3108//-1 (IR3108): See Fig. 10–2

Side view



VHIM5213L//-1 (M5213L): See Fig. 7–1

Side view

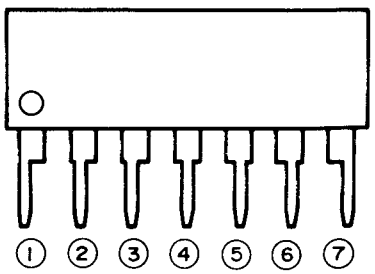
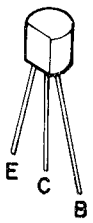
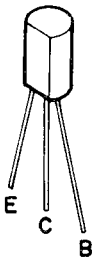


Figure 45–2 TYPES OF IC101, IC301, IC302, IC404, IC405, IC406, IC407, IC408, IC701 AND IC702

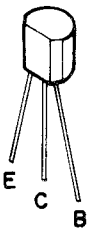
TRANSISTOR



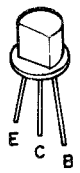
- 2SC3800
- 2SC1923O



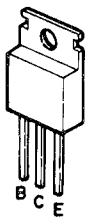
- 2SC2236Y



- 2SA999F/LF
- 2SC2320F/LF



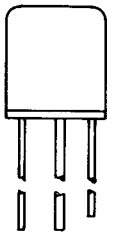
- 2SC394Y
- 2SC373G



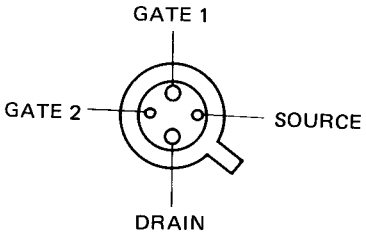
- 2SD1052A

E: Emitter
C: Collector
B: Base

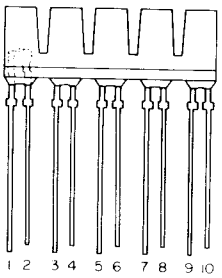
FET



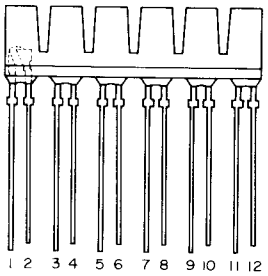
- 3SK45B



LED



- GL-105N51



- GL-106M5

- GL-9PR623

1: Anode
2: Cathode

Figure 46-1 TYPES OF TRANSISTOR AND LED

Packing Procedure

Setting positions of every switch and knob

1. The power switch is set at "OFF" position.
2. The Dolby NR switches are set at "OFF" position.
3. The tape selector switches are set at "OFF" position.
4. The function selector switches are set at "AM" position.
5. The muting switch is set at "OFF" position.
6. The 11-ganged keys (to control the deck [1] and deck [2]) are unlocked.
7. The tape counter is set at "000" position.
8. The tape operation switch is set at "■ [1] or & [2]" position.
9. The dubbing switch is set at "OFF" position.
10. The loudness switch is set at "OFF" position.
11. The record level control knobs are set at "minimum" position.
12. The tape fader control knob is set at "center" position.
13. The microphone mixing control knob is set at "minimum" position.
14. The balance, bass and treble control knobs are set at "center" position.
15. The volume control knob is set at "minimum" position.
16. The tuning control knob is set at "fL" position.

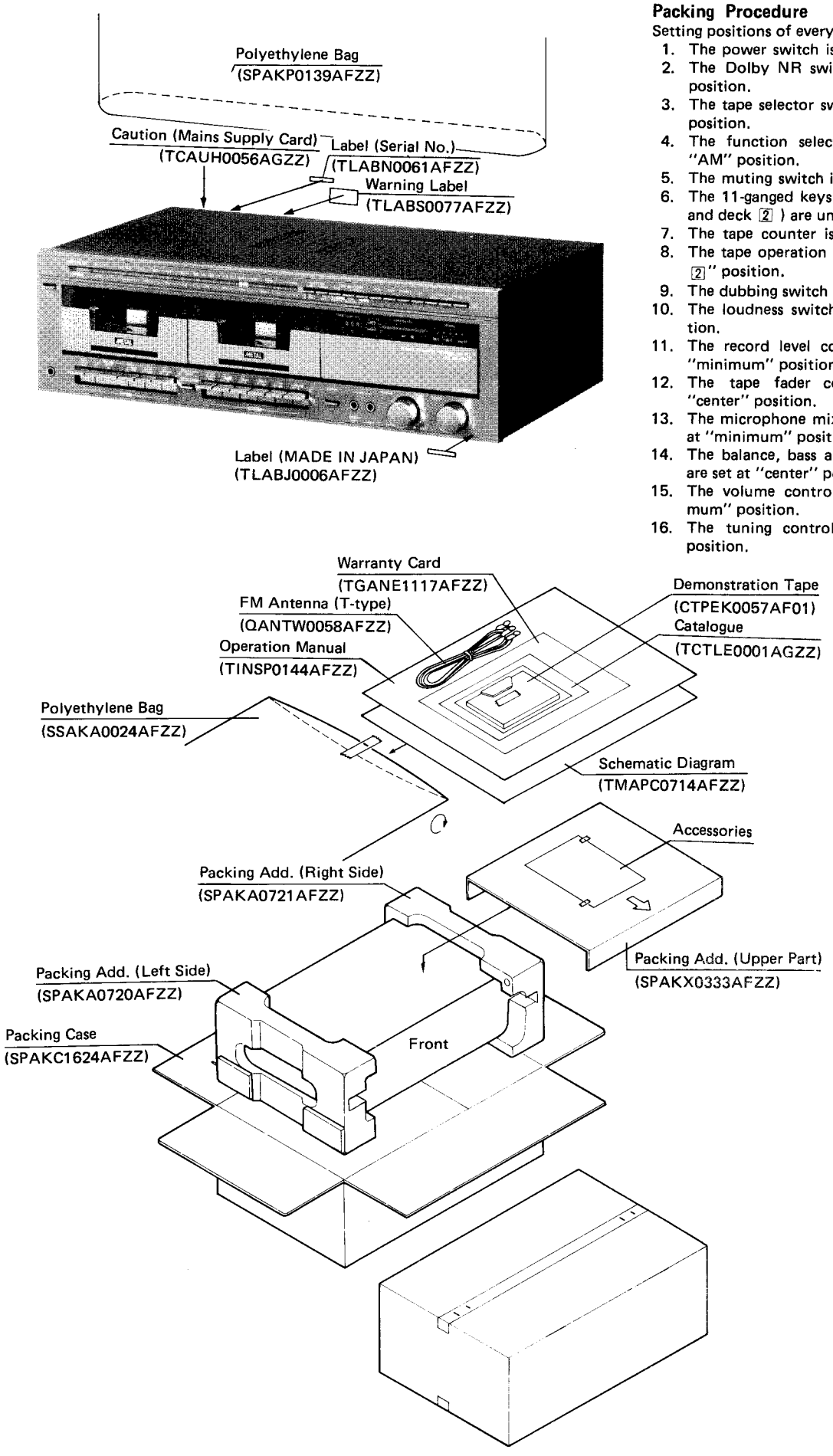


Figure 47–1 PACKING METHOD (UK Only)

REPLACEMENT PARTS LIST

"HOW TO ORDER REPLACEMENT PARTS"

To have your order filled promptly and correctly, please furnish the following information.

1. MODEL NUMBER 2. REF. NO.
3. PART NO. 4. DESCRIPTION

NOTES:
Parts marked with "⚠" (▩) are important for maintaining the safety of the set.
Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

REF. NO.	PART NO.	DESCRIPTION		CODE
	IC's (Integrated Circuits)			
IC101	VHISTK-461/-2	Power Amplifier	(STK-461)	AZ
IC201	VHIIR2E01//-1	FM/AM Signal Strength Indicator Driver	(IR2E01)	AH
IC202,203	VHILB1416//-1	Tape Level Meter Driver	(LB1416)	AK
IC301,302	VHIM5213L//-1	Microphone Amplifier	(M5213L)	AF
IC401	VHILA1240//-1	AM RF/IF Amplifier and Detector	(LA1240)	AK
IC402	VHIHA11225/-1	FM IF Amplifier and Detector	(HA11225)	AN
IC403	RH-1X1080AFZZ	PLL Stereo MPX Demodulator	(HA11227)	AL
IC404	VHIIR3108//-1	APSS Circuit	(IR3108)	AK
IC405,406	VHINE646B//1F	Deck [2] Dolby NR Circuit	(NE646B)	AM
IC407,408	VHIM5213L//-1	Phono Equalizer Amplifier	(M5213L)	AF
IC701,702	VHINE646B//1F	Deck [1] Dolby NR Circuit	(NE646B)	AM
	TRANSISTORS			
Q101,102	VS2SC2320-F-1	Audio Muting	(2SC2320F)	AB
Q103	VS2SA999-F/-1	Voltage Regulator	(2SA999F)	AC
Q104	VS2SC2320-F-1	Voltage Regulator	(2SC2320F)	AB
Q105,106	VS2SC2236Y/-1	Pause Solenoid Driver	(2SC2236Y)	AD
Q107	VS2SA999-F/-1	Pause Solenoid Driver	(2SA999F)	AC
Q108	VS2SD1052A/-1	Voltage Regulator	(2SD1052A)	AF
Q401	VS3SK45-B//1F	FM RF Amplifier	(3SK45B)	AH
Q402	VS2SC1923O/-1	FM Mixer	(2SC1923O)	AC
Q403	VS2SC394-Y/-1	FM Local Oscillator	(2SC394Y)	AC
Q404	VS2SC380-O/-1	FM IF Amplifier	(2SC380O)	AC
Q405,406	VS2SC2320-F-1	Deck [1] Muting	(2SC2320F)	AB
Q407,408, Q409,410	VS2SC2320LF-1	Deck [2] Playback Equalizer Amplifier	(2SC2320LF)	AB
Q411,412	VS2SC2320-F-1	Deck [2] Equalizer Switching	(2SC2320F)	AB
Q413,414	VS2SC2236Y/-1	Deck [2] Muting	(2SC2236Y)	AD
Q415,416	VS2SC2320-F-1	Deck [2] Line/Record Amplifier	(2SC2320F)	AB
Q417	VS2SA999-F/-1	APSS Solenoid Driver	(2SA999F)	AC
Q418	VS2SC2236Y/-1	APSS Solenoid Driver	(2SC2236Y)	AD
Q419,420	VS2SC2320LF-1	Tape Buffer Amplifier	(2SC2320LF)	AB
Q421,422	VS2SC2320-F-1	Deck [1] Level Indicator Muting	(2SC2320F)	AB
Q423,424	VS2SC2320-F-1	Deck [1] Muting	(2SC2320F)	AB
Q425,426	VS2SC2320LF-1	Tone Control Amplifier	(2SC2320LF)	AB
Q427,428	VS2SA999LF/-1	Tone Control Amplifier	(2SA999LF)	AB
Q429	VS2SC2320-F-1	AM Muting	(2SC2320F)	AB
Q430,431	VS2SC373-G/-1	Deck [2] Muting	(2SC373G)	AC
Q701,702, Q703,704	VS2SC2320LF-1	Deck [1] Playback Equalizer Amplifier	(2SC2320LF)	AB
Q705,706	VS2SC2320-F-1	Deck [1] Muting	(2SC2320F)	AB
Q707,708	VS2SC2320-F-1	Deck [1] Line Amplifier	(2SC2320F)	AB
	DIODES			
D101,102	VHD10E1////-1	Protector	(10E1)	AC
⚠D104	VHDDBA40C//-1	Rectifier	(DBA40C)	AH
⚠D106,107, ⚠D108,109	VHD10E1////-1	Rectifier	(10E1)	AC
D301	VHD1S1555V/1G	Muting Control	(1S1555)	AB
D401	VHD1S1555V/1G	Reverse Current Protector	(1S1555)	AB
D402,403	VHD1S1555V/1G	OR Circuit	(1S1555)	AB
D404	VHD1S1555V/1G	Reverse Current Protector	(1S1555)	AB
D405,406	VHD1S1555V/1G	Deck [2] Dolby NR Control	(1S1555)	AB
D407,408	VHD1S1555V/1G	Time Constant Control	(1S1555)	AB
D409,410, D411	VHD1S1555V/1G	Muting Control	(1S1555)	AB
D412	VHD1S1555V/1G	Deck [2] Dolby NR Control	(1S1555)	AB
D413	VHD10E1////-1	Protector	(10E1)	AC
D414	VHD1S1555V/1G	Level Shift	(1S1555)	AB
D415	VHD1S1555V/1G	Muting Control	(1S1555)	AB
D416,417	VHD1S1555V/1G	Reverse Current Protector	(1S1555)	AB
D701,702	VHD1S1555V/1G	Deck [1] Dolby NR Control	(1S1555)	AB
	ZENER DIODES			
ZD101,102, ZD103	VHEHZ15-3L/-1	Voltage Regulator	(HZ15-3L)	AB
	LED's (Light Emitting Diodes)			
LED201	VHPGL105N51-1	FM/AM Signal Strength Indicator	(GL-105N51)	AD
LED202,203	VHPGL106M5/-1	Tape Level Meter	(GL-106M5)	AL
LED204	RH-PX1018AFZZ	FM Stereo Indicator	(GL-9PR623)	AC
LED205	RH-PX1018AFZZ	Record Indicator	(GL-9PR623)	AC

PARTS LIST

REF. NO.	PART NO.	DESCRIPTION	CODE
LED206	RH-PX1024AFZZ	Deck [1] Dolby (GL-9NG623) NR Indicator	AD
LED207	RH-PX1024AFZZ	Deck [2] Dolby (GL-9NG623) NR Indicator	AD
POSISTOR			
PH101	RH-QX1005AFZZ	Temperature Sensor	AF
TRANSFORMERS			
⚠T101	RTRNP0722AFZZ	Power	BE
T401	RCILI0204AFZZ	FM IF	AC
T402	RCILI0200AFZZ	AM IF, 455kHz	AG
	RCILI0233AFZZ	AM IF, 468kHz (UK Only)	AG
T403,404	RCILB0480AFZZ	Bias Step Up	AD
COILS			
L201	VP-CH101K0000	Choke, 100 μH	AB
L401	RCILA0439AFZZ	AM Bar Antenna (with Core)	AG
L402	RCILA0407AFZZ	FM Antenna	AD
L403	RCILR0352AFZZ	FM RF	
L404	RCILC0079AFZZ	FM IF Idler	AC
L405	VP-CH470K0000	Trap, 47 μH	AB
L406	RCILB0434AFZZ	FM Local Oscillator	AD
L407	RCILI0222AFZZ	AM IF Trap	AD
L408	RCILB0395AFZZ	AM Local Oscillator	AC
L409	RCILD0066AFZZ	FM Detector	AE
L410	RCILD0067AFZZ	FM Detector	AE
L411	RCILI0219AFZZ	AM IF	AD
L412	RCILA0003SEZZ	AM External Antenna	AC
L413,414	RCILZ0084AFZZ	Record Equalizer, 6.8mH	AD
L415	RCILB0532AFZZ	Bias Oscillator	
CERAMIC FILTERS			
CF401,402	RFILF0077AFZZ	FM IF	AF
LOW PASS FILTERS			
LPF401,402	RCILL0069AFZZ	Deck [2] Dolby NR	AF
LPF701,702	RCILL0068AFZZ	Deck [1] Dolby NR	AG
CONTROLS			
VC401A~E, TC401A~E	RVC-C0064AFZZ	Variable Capacitor with Trimmer Assembly TC401A: FM Antenna Trimmer B: AM Antenna Trimmer C: FM RF Trimmer D: AM Oscillation Trimmer E: FM Oscillation Trimmer	AU
VR201,202, VR203,204	RVR-M0288AFZZ	10Kohm (B), Tape Level Meter Sensitivity Adjustment	AB
VR301A,B	RVR-B0241AFZZ	100K ohm (B), Volume Control	

REF. NO.	PART NO.	DESCRIPTION	CODE
VR401	RVR-M0248AFZZ	10K ohm (B), VCO Frequency Adjustment	AB
VR402	RVR-M0227AFZZ	200 ohm (B), FM Stereo Separation Adjustment	AB
VR403,404	RVR-M0256AFZZ	20K ohm (B), Tape 1 Playback Sensitivity Adjustment	AB
VR405,406	RVR-M0248AFZZ	10K ohm (B), Tape 2 Playback Sensitivity Adjustment	AB
VR407,408	RVR-M0249AFZZ	50K ohm (B), Record Level Adjustment	AB
VR409,410	RVR-M0248AFZZ	10K ohm (B), Bias Current Adjustment	AB
VR411,412	RVR-A0153AFZZ	50K ohm (A), Record Level Control	AE
VR413A,B	RVR-A0152AFZZ	20K ohm (B), Microphone Mixing Volume Control	AG
VR414A,B	RVR-G0062AFZZ	100K ohm (MN), Balance Control	AG
VR415A,B	RVR-A0151AFZZ	100K ohm (A), Bass Control	AH
VR416A,B	RVR-A0151AFZZ	100K ohm (A), Treble Control	AH
VR417,418	RVR-M0256AFZZ	20K ohm (B), Dubbing Sensitivity Adjustment	AB
VR419A,B	RVR-B0223AFZZ	100K ohm (B), Tape Fader Control	AG
VR420	RVR-M0248AFZZ	10K ohm (B), FM Muting Level Adjustment	AB

ELECTROLYTIC CAPACITORS

(Unless otherwise specified electrolytic capacitors are ±20% type.)

C1,2	VCEAAU1HW105A	1 MFD, 50V, +75—10%	AB
C103,104	VCEALV1HC334M	.33 MFD, 50V	AB
C109,110	RC-EZV476AF1E	47 MFD, 25V	AB
C113,114	RC-EZV476AF1E	47 MFD, 25V	AB
C117,118	RC-EZV106AF1H	10 MFD, 50V	AB
C123,124	RC-EZV476AF1E	47 MFD, 25V	AB
C128	VCEALV1VW475M	4.7 MFD, 35V	AB
C129,130	RC-EZV477AF1C	470 MFD, 16V	AC
C131	RC-EZW228AF1V	2200 MFD, 35V	AC
C132,133	RC-EZ1081AFZZ	3300 MFD, 35V, +30—10%	AK
C136	RC-EZW228AF1V	2200 MFD, 35V	AC
C139	RC-EZW228AF1E	2200 MFD, 25V	AB
C140	RC-EZV107AF1V	100 MFD, 35V	AC
C201	RC-EZA475AF1H	4.7 MFD, 50V	AB
C202	RC-EZA106AF1H	10 MFD, 50V	AB
C203	RC-EZA475AF1H	4.7 MFD, 50V	AB
C204,205	VCEALA1HW104K	.1 MFD, 50V, ±10%	AB
C206	RC-EZA106AF1H	10 MFD, 50V	AB
C207	RC-EZA475AF1H	4.7 MFD, 50V	AB
C208,209	VCEALA1HW104K	.1 MFD, 50V, ±10%	AB
C210	RC-EZA106AF1H	10 MFD, 50V	AB
C211,212, C213	RC-EZA476AF1E	47 MFD, 25V	AB
C301,302	VCEALV1HC225M	2.2 MFD, 50V	AB
C309,310	RC-EZV106AF1H	10 MFD, 50V	AB
C311,312	VCEALV1HW224M	.22 MFD, 50V	AB
C424	RC-EZA476AF1E	47 MFD, 25V	AB
C428	RC-EZA475AF1H	4.7 MFD, 50V	AB
C429	RC-EZV335AF1H	3.3 MFD, 50V	AB
C431	RC-EZA476AF1E	47 MFD, 25V	AB
C435	VCEALU1HW104K	.1 MFD, 50V, ±10%	AB
C439	RC-EZA105AF1H	1 MFD, 50V	AB
C443	VCEALV1HW474M	.47 MFD, 50V	AB

PARTS LIST

REF. NO.	PART NO.	DESCRIPTION	CODE
C447	VCEALV1HW105M	1 MFD, 50V	AB
C450	RC-EZV107AF1E	100 MFD, 25V	AC
C451	RC-EZA107AF1A	100 MFD, 10V	AB
C452	RC-EZA475AF1H	4.7 MFD, 50V	AB
C456,457	RC-EZA105AF1H	1 MFD, 50V	AB
C460	VCEALV1HW105M	1 MFD, 50V	AB
C461	VCEALA1HW334K	.33 MFD, 50V, ±10%	AB
C462	VCEALV1HW225M	2.2 MFD, 50V	AB
C463	RC-EZA105AF1H	1 MFD, 50V	AB
C464,471	RC-EZA106AF1H	10 MFD, 50V	AB
C472	RC-EZS476AF1E	47 MFD, 25V	
C473	RC-EZS106AF1H	10 MFD, 50V	
C483,484	VCEALA1CC106M	10 MFD, 16V	AC
C489,490	RC-EZA476AF1A	47 MFD, 10V	AB
C491,492	RC-EZA105AF1H	1 MFD, 50V	AB
C495	RC-EZA336AF1C	33 MFD, 16V	AB
C496	RC-EZV477AF1C	470 MFD, 16V	
C497,498	RC-EZA105AF1H	1 MFD, 50V	AB
C503	RC-EZA106AF1H	10 MFD, 50V	AB
C504	RC-EZS106AF1H	10 MFD, 50V	
C505	VCEALA1HW104K	.1 MFD, 50V, ±10%	AB
C506	VCEALU1HW104K	.1 MFD, 50V, ±10%	AB
C507	VCEALA1HW334K	.33 MFD, 50V, ±10%	AB
C508	VCEALU1HW334K	.33 MFD, 50V, ±10%	AB
C515,516	RC-EZA106AF1H	10 MFD, 50V	AB
C517,518	RC-EZA107AF1A	100 MFD, 10V	AB
C519	RC-EZA106AF1H	10 MFD, 50V	AB
C520	RC-EZS106AF1H	10 MFD, 50V	
C521,522	VCEALA1HW474M	.47 MFD, 50V	AB
C523,524	RC-EZA106AF1H	10 MFD, 50V	AB
C525,526	VCEALA1HW334K	.33 MFD, 50V, ±10%	AB
C527,528	RC-EZV107AF1E	100 MFD, 25V	AC
C543,544	RC-EZA106AF1H	10 MFD, 50V	AB
C545	RC-EZA336AF1C	33 MFD, 16V	AB
C546	RC-EZV476AF1E	47 MFD, 25V	AB
C547	RC-EZS335AF1H	3.3 MFD, 50V	
C548	RC-EZS107AF1C	100 MFD, 16V	AB
C551,552	VCEALA1HC335M	3.3 MFD, 50V	AB
C555,556	VCEALA1HC104M	.1 MFD, 50V	AB
C557,558	VCEALA1HC225M	2.2 MFD, 50V	AB
C567,568	RC-EZS227AF1A	220 MFD, 10V	
C572	RC-EZV227AF1C	220 MFD, 16V	AB
C573	RC-EZS106AF1H	10 MFD, 50V	
C574	RC-EZA106AF1H	10 MFD, 50V	AB
C575	RC-EZA476AF1E	47 MFD, 25V	AB
C576	RC-EZA106AF1H	10 MFD, 50V	AB
C577,578	VCEALV1HW334K	.33 MFD, 50V, ±10%	AB
C583,584	RC-EZV335AF1H	3.3 MFD, 50V	AB
C585	RC-EZV336AF1C	33 MFD, 16V	AB
C589,590	VCEALA1HW334K	.33 MFD, 50V, ±10%	AB
C595,596	RC-EZS105AF1H	1 MFD, 50V	
C605	RC-EZV227AF1C	220 MFD, 16V	AB
C607,608	RC-EZA106AF1H	10 MFD, 50V	AB
C703,704	VCEALV1CC106M	10 MFD, 16V	AB
C711,712	RC-EZV476AF1A	47 MFD, 10V	AB
C713,714	RC-EZV106AF1H	10 MFD, 50V	AB
C715	RC-EZV336AF1C	33 MFD, 16V	AB
C717,718	RC-EZV106AF1H	10 MFD, 50V	AB
C727	RC-EZV227AF1A	220 MFD, 10V	AC
C728	RC-EZV477AF1C	470 MFD, 16V	AC
C731,732	RC-EZV105AF1H	1 MFD, 50V	AB
C733,734	RC-EZV106AF1H	10 MFD, 50V	AB
C735,736	RC-EZV106AF1H	10 MFD, 50V	AB
C739,740	RC-EZV106AF1H	10 MFD, 50V	AB
C741,742	VCEALV1HC335M	3.3 MFD, 50V	AB
C743,744	VCEALV1HC334K	.33 MFD, 50V, ±10%	AC
C745,746	VCEALV1HC104K	.1 MFD, 50V, ±10%	AB

CAPACITORS

(Unless otherwise specified capacitors are 50V, +80—10%, Ceramic type.)

REF. NO.	PART NO.	DESCRIPTION	CODE
C101,102	VCCSAT1HL101J	100PF, 50V,±5%, Ceramic	AA
C105,106	VCCSPU1HL471K	470PF, 50V, ±10%, Ceramic	AA
C111,112	VCCRPU1HH9R0D	9PF, 50V, ±.5PF, Ceramic	AA
C119,120	VCQYKU1HM473K	.047MFD, 50V, ±10%, Mylar	AB
C121	VCKZPU1HF223Z	.022MFD	AA
C122	VCTYAT1EX223N	.022MFD, 25V,±30%, Semi-conductor	AA
C134,135, C137,138	VCKZPU1HF333P	.033MFD, 50V, +100—0%, Ceramic	AA
⚠C141	RC-HZ064CAFZZ	.047MFD, 250V, ±20%, Metallized Paper	AG
C303,304	VCCSPU1HL101K	100PF, 50V,±10%, Ceramic	AA
C305,306, C307,308	VCKZPU1HF102Z	.001MFD	AA
C313,314	VCCSAT1HL560J	56PF, 50V,±5%, Ceramic	AA
C315,316	VCKYAT1HB561K	560PF, 50V, ±10%, Ceramic	AA
C317,318	VCCSPU1HF471K	470PF, 50V, ±10%, Ceramic	AA
C401	VCCSPU1HL151J	150PF, 50V,±5%, Ceramic	AA
C402	VCCTPU1HH120J	12PF, 50V,±5%, Ceramic	AA
C403,404	VCKZPA1HF223Z	.022MFD	AA
C405	VCCSPU1HL2R0C	2pF, 50V,±.25PF, Ceramic	AA
C406	VCCTPU1HH120J	12PF, 50V,±5%, Ceramic	AA
C407	VCCSPU1HL101J	100PF, 50V,±5%, Ceramic	AA
C408,409	VCKZPA1HF223Z	.022MFD	AA
C410	VCCSPU1HL2R0C	2PF, 50V,±.25PF, Ceramic	AA
C411	VCKZPU1HF223Z	.022MFD	AA
C412	VCCPPU1HH220J	22PF, 50V,±5%, Ceramic	AA
C413	VCCTPU1HH8R0C	8PF, 50V,±.25PF, Ceramic	AA
C414	VCKZPA1HF223Z	.022MFD	AA
C415	VCCTPU1HH8R0C	8PF, 50V,±.25PF, Ceramic	AA
C417	VCKZPU1HF223Z	.022MFD	AA
C418	VCCTPU1HH8R0C	8PF, 50V,±.25PF, Ceramic	AA
C419	VCKZPA1HF403Z	.04MFD	AA
C420	VCQSMU1HS331J	330PF, 50V,±5%, Styrol	AB
C421	VCCUPU1HJ120J	12PF, 50V,±5%, Ceramic	AA
C422	VCKZPA1HF403Z	.04MFD	AA
C423	VCKZPA1HF102Z	.001MFD	AA
C425	VCKZPU1HF223Z	.022MFD	AA
C427	VCKZPA1HF403Z	.04MFD	AA
C430	VCKZPA1HF102Z	.001MFD	AA
C432	VCKZPU1HF103Z	.01MFD	AA
C433	VCKZPA1HF403Z	.04MFD	AA
C434	VCTYPU1EX123J	.012MFD, 50V,±5%, Semi-conductor	AB
C436,437	VCKZPA1HF223Z	.022MFD	AA
C438	VCKZPU1HF223Z	.022MFD	AA
C440	VCKZPA1HF223Z	.022MFD	AA
C441	VCCSPU1HL391K	390PF, 50V,±10%, Ceramic	AA
C442	VCKZPA1HF223Z	.022MFD	AA
C444	VCKZPU1HF223Z	.022MFD	AA
C445,446	VCKZPA1HF223Z	.022MFD	AA
C448	VCKZPU1HF403Z	.04MFD	AA
C449,453	VCKZPA1HF403Z	.04MFD	AA
C454,455	VCTYPA1EX183K	.018MFD, 25V,±10%, Semi-conductor	AB
C458	VCQYKU1HM473K	.047MFD, 50V, ±10%, Mylar	AB
C459	VCQSMU1HS471J	470PF, 50V,±5%, Styrol	AB
C466	VCCSPU1HL470J	47PF, 50V,±5%, Ceramic	AA

PARTS LIST

REF. NO.	PART NO.	DESCRIPTION	CODE
C469	VCKZPU1HF403Z	.04MFD	AA
C470	VCKZPA1HF223Z	.022MFD	AA
C481,482	VCCSPA1HL331J	330PF, 50V,±5%, Ceramic	AA
C485,486	VCKZPA1HF102Z	.001MFD	AA
C487,488	VCTYPA1EX562J	.005MFD, 25V,±5%, Semi-conductor	AB
C493,494	VCTYPA1EX123J	.012MFD, 25V,±5%, Semi-conductor	AB
C499	VCKZPA1HF102Z	.001MFD	AA
C500	VCKYAT1HB102K	.001MFD, 50V,±10%, Ceramic	AA
C501,502	VCTYPA1EX473J	.047MFD, 25V,±5%, Semi-conductor	AB
C509,510	VCTYPA1EX562J	.0056MFD, 25V,±5%, Semi-conductor	AB
C511,512	VCTYPA1EX472J	.0047MFD, 25V,±5%, Semi-conductor	AB
C513,514	VCTYPA1EX273J	.027MFD, 25V,±5%, Semi-conductor	AB
C531,532	VCTYPA1EX153J	.015MFD, 25V,±5%, Semi-conductor	AB
C533,534	VCTYPA1EX333J	.033MFD, 25V,±5%, Semi-conductor	AB
C535,536	VCTYPA1EX123J	.012MFD, 25V,±5%, Semi-conductor	AB
C537,538	VCTYPA1EX332J	.0033MFD, 25V,±5%, Semi-conductor	AB
C539,540	VCKYAT1HB681K	680PF, 50V,±10%, Ceramic	AA
C541	VCTYAT1EX682K	.0068MFD, 25V,±10%, Semi-conductor	AA
C542	VCTYPA1EX333K	.033MFD, 25V,±10%, Semi-conductor	AB
C553,554	VCCSAT1HL101J	100PF, 50V,±5%, Ceramic	AA
C559,560	VCCSPA1HL101J	100PF, 50V,±5%, Ceramic	AA
C561,562, C563,564	VCKZPA1HF102Z	.001MFD	AA
C565,566	VCTYPA1EX102J	.001MFD, 25V,±5%, Semi-conductor	AB
C569,570	VCTYPA1EX332J	.0033MFD, 25V,±5%, Semi-conductor	AA
C571	VCKZPU1HF103Z	.01MFD	AA
C579,580	VCKYAT1HB102K	.001MFD, 50V,±10%, Ceramic	AA
C581,582	VCCSPA1HL330J	33PF, 50V,±5%, Ceramic	AA
C587	VCTYPU1EX683K	.068MFD, 25V,±10%, Semi-conductor	AB
C588	VCTYPA1EX683K	.068MFD, 25V,±10%, Semi-conductor	AB
C591,592	VCTYAT1HV222K	.0022MFD, 50V,±10%, Semi-conductor	AA
C593,594	VCTYPA1EX183J	.018MFD, 25V,±5%, Semi-conductor	AB
C597	VCKZPA1HF102Z	.001MFD, 50V,±10%, Ceramic	AA
C598	VCKZPA1HF403Z	.04MFD	AA
C599,600	VCTYPA1EX333J	.033MFD, 25V,±5%, Semi-conductor	AB
C606	VCCCPU1HH330J	33PF, 50V,±5%, Ceramic	AA
C609	VCKZPA1HF102Z	.001MFD	AA
C610	VCKYAT1HB102K	.001MFD, 50V,±10%, Ceramic	AA
C611	VCCSPU1HL5R0C	5PF, 50V,±.25PF, Ceramic	AA
C612	VCKZPU1HF223Z	.022MFD	AA
C613	VCCSPU1HL101J	100PF, 50V,±5%, Ceramic	AA
C614,615	VCKZPU1HF403Z	.04MFD	AA
C701,702	VCCSPV1HL331J	330PF, 50V,±5%, Ceramic	AA
C705,706	VCKZPU1HF102Z	.001MFD	AA
C709,710	VCTYAT1EX562K	.0056MFD, 25V, ±10%, Semi-conductor	AA
C719,720	VCTYPU1EX472J	.0047MFD, 25V,±5%, Semiconductor	AB
C721,722	VCTYPU1EX273J	.027MFD, 25V,±5%, Semiconductor	AB
C723,724	VCTYPU1EX562K	.0056MFD, 25V,±10%, Semiconductor	AA
C725,726	VCKZPU1HF102Z	.001MFD	AA
C729,730	VCKZPU1HF102Z	.001MFD	AA
C737,738	VCTYPU1EX473J	.047MFD, 25V,±5%, Semiconductor	AB
C747,748	VCTYPU1EX123J	.012MFD, 25V,±5%, Semiconductor	AA

RESISTORS

(Unless otherwise specified resistors are 1/4W,±5%, Carbon type.)

	R101,102	VRD-ST2EE333J	33K ohm	AA
	R103,104	VRD-ST2EE102J	1K ohm	AA
	R105,106	VRD-ST2EE472J	4.7K ohm	AA
	R107,108	VRD-ST2EE333J	33K ohm	AA
	R109,110	VRD-ST2EE331J	330 ohm	AA
	R111,112	VRD-ST2EE332J	3.3K ohm	AA
	R113,114	VRD-ST2EE102J	1K ohm	AA
	R115,116	VRD-ST2EE273J	27K ohm	AA
⚠	R117,118	VRG-SA2ED4R7J	4.7 ohm, 1/4W, ±5%, Fusible	AB
	R119	VRD-ST2EE333J	33K ohm	AA
⚠	R120	VRG-SA2EC101J	100 ohm, 1/4W, ±5%, Fusible	AB
	R121,122	VRD-ST2EE222J	2.2K ohm	AA
⚠	R123,124	VRG-SA2EC331J	330 ohm, 1/4W, ±5%, Fusible	AB
	R125	VRD-ST2EE103J	10K ohm	AA
	R126	VRD-ST2EE152J	1.5K ohm	AA
	R127	VRD-ST2EE102J	1K ohm	AA
	R128	VRD-ST2EE472J	4.7K ohm	AA
	R129	VRD-ST2EE153J	15K ohm	AA
⚠	R130	RR-XZ1020AFZZ	22 ohm, 3W, ±10%, Fusible	AD
	R131,132	VRD-ST2EE102J	1K ohm	AA
	R133	VRD-ST2EE103J	10K ohm	AA
	R134	VRD-SA2EE103J	10K ohm	AA
	R135	VRD-ST2EE102J	1K ohm	AA
	R136,137	VRS-PU3DB102J	1K ohm, 2W,±5%, Metal Oxide Film	AB
	R138	VRD-ST2EE822J	8.2K ohm	AA
	R139	VRS-PT3DB680K	68 ohm, 2W,±10%, Metal Oxide Film	AB
	R201	VRD-ST2EE104J	100K ohm	AA
	R202	VRD-ST2EE103J	10K ohm	AA
	R203	VRD-ST2EE183J	18K ohm	AA
	R204	VRD-ST2EE392J	3.9K ohm	AA
	R206,207	VRD-ST2EE151J	150 ohm	AA
	R208,209	VRD-ST2EE122J	1.2K ohm	AA
	R211	VRD-ST2EE821J	820 ohm	AA
	R212	VRD-ST2EE823J	82K ohm	AA
	R213	VRD-ST2EE153J	15K ohm	AA
	R214	VRD-ST2EE103J	10K ohm	AA
	R215,216	VRD-ST2EE151J	150 ohm	AA
	R217	VRD-ST2EE823J	82K ohm	AA
	R218	VRD-ST2EE153J	15K ohm	AA
	R219	VRD-ST2EE103J	10K ohm	AA
	R301,302	VRD-ST2EE103J	10K ohm	AA
	R303,304	VRD-ST2EE104J	100K ohm	AA

PARTS LIST

REF. NO.	PART NO.	DESCRIPTION	CODE
R305,306	VRD-ST2EE681J	680 ohm	AA
R307,308	VRD-ST2EE224J	220K ohm	AA
R309,310, R311	VRD-ST2EE102J	1K ohm	AA
R401	VRD-ST2EE184J	180K ohm	AA
R402	VRD-ST2EE101J	100 ohm	AA
R403	VRD-ST2EE331J	330 ohm	AA
R404	VRD-ST2EE470J	47 ohm	AA
R405	VRD-ST2EE223J	22K ohm	AA
R406	VRD-ST2EE472J	4.7K ohm	AA
R408	VRD-SU2EE122J	1.2K ohm	AA
R409	VRD-ST2EE101J	100 ohm	AA
R410	VRD-ST2EE471J	470 ohm	AA
R411	VRD-ST2EE474J	470K ohm	AA
R412	VRD-ST2EE470J	47 ohm	AA
R413,414	VRD-ST2EE331J	330 ohm	AA
R415,416	VRD-ST2EE103J	10K ohm	AA
R417	VRD-ST2EE332J	3.3K ohm	AA
R418	VRD-ST2EE561J	560 ohm	AA
R419	VRD-ST2EE152J	1.5K ohm	AA
R420	VRD-ST2EE101J	100 ohm	AA
R421	VRD-ST2EE151J	150 ohm	AA
R422,423	VRD-ST2EE103J	10K ohm	AA
R424	VRD-ST2EE331J	330 ohm	AA
R425	VRD-ST2EE103J	10K ohm	AA
R426,427	VRD-ST2EE272J	2.7K ohm	AA
R428	VRD-ST2EE221J	220 ohm	AA
R429	VRD-ST2EE104J	100K ohm	AA
R430	VRD-ST2EE331J	330 ohm	AA
R431	VRD-ST2EE223J	22K ohm	AA
R432	VRD-ST2EE683J	68K ohm	AA
R433	VRD-ST2EE103J	10K ohm	AA
R434	VRD-ST2EE333J	33K ohm	AA
R435	VRD-SU2EE102J	1K ohm	AA
R436	VRD-ST2EE474J	470K ohm	AA
R437	VRD-ST2EE223J	22K ohm	AA
R438	VRD-ST2EE102J	1K ohm	AA
R439	VRD-ST2EE222J	2.2K ohm	AA
R440	VRD-ST2EE181J	180 ohm	AA
R441	VRD-ST2EE153J	15K ohm	AA
R442	VRD-ST2EE222J	2.2K ohm	AA
R443	VRD-ST2EE153J	15K ohm	AA
R444	VRD-ST2EE561J	560 ohm	AA
R445,446	VRD-ST2EE332J	3.3K ohm	AA
R447	VRD-ST2EE121J	120 ohm	AA
R448	VRD-ST2EE223J	22K ohm	AA
R449	VRD-ST2EE102J	1K ohm	AA
R450,451	VRD-ST2EE104J	100K ohm	AA
R452	VRD-SU2EE683J	68K ohm	AA
R453,454, R455,456	VRD-ST2EE103J	10K ohm	AA
R457,458	VRD-ST2EE123J	12K ohm	AA
R459	VRD-ST2EE153J	15K ohm	AA
R460	VRD-ST2EE222J	2.2K ohm	AA
R461	VRD-ST2EE101J	100 ohm	AA
R462	VRD-SU2EE101J	100 ohm	AA
R463	VRD-ST2EE1R0J	1 ohm	AA
R464	VRD-ST2EE472J	4.7K ohm	AA
R465,466	VRD-ST2EE104J	100K ohm	AA
R467,468	VRD-ST2EE223J	22K ohm	AA
R469,470	VRD-ST2EE221J	220 ohm	AA
R471,472	VRD-ST2EE564J	560K ohm	AA
R473,474	VRD-ST2EE563J	56K ohm	AA
R475,476	VRD-ST2EE103J	10K ohm	AA
R477,478	VRD-ST2EE152J	1.5K ohm	AA
R479,480	VRD-ST2EE562J	5.6K ohm	AA
R481,482	VRD-ST2EE153J	15K ohm	AA
R483,484	VRD-ST2EE472J	4.7K ohm	AA
R485,486	VRD-ST2EE332J	3.3K ohm	AA
R487,488	VRD-ST2EE181J	180 ohm	AA
R489,490	VRD-ST2EE473J	47K ohm	AA
R491,492	VRD-ST2EE184J	180K ohm	AA
R493,494	VRD-ST2EE274J	270K ohm	AA
R495	VRD-ST2EE102J	1K ohm	AA
R496	VRD-ST2EE474J	470K ohm	AA
R497	VRD-ST2EE102J	1K ohm	AA
R498	VRD-ST2EE124J	120K ohm	AA
R499,500	VRD-ST2EE103J	10K ohm	AA
R501,502	VRD-ST2EE472J	4.7K ohm	AA
⚠R503	VRG-SA2EC121J	120 ohm, 1/4W, ±5%, Fusible	AB
R504	VRD-ST2EE683J	68K ohm	AA
R505,506	VRD-ST2EE224J	220K ohm	AA
R507,508	VRD-ST2EE103J	10K ohm	AA
R509,510	VRD-ST2EE473J	47K ohm	AA
R511,512	VRD-ST2EE222J	2.2K ohm	AA
R513,514	VRD-ST2EE103J	10K ohm	AA
R515,516	VRD-ST2EE152J	1.5K ohm	AA
R517	VRD-ST2EE333J	33K ohm	AA
R519,520	VRD-ST2EE103J	10K ohm	AA
R523,524	VRD-ST2EE101J	100 ohm	AA
R525,526	VRD-ST2EE101J	100 ohm	AA
R527,528	VRD-ST2EE682J	6.8K ohm	AA
R529,530	VRD-ST2EE101J	100 ohm	AA
R531,532	VRD-ST2EE392J	3.9K ohm	AA
R533	VRD-SU2EE224J	220K ohm	AA
R534	VRD-SU2EE104J	100K ohm	AA
R535,536	VRD-ST2EE332J	3.3K ohm	AA
R537,538	VRD-ST2EE392J	3.9K ohm	AA
R539	VRD-ST2EE820J	82 ohm	AA
⚠R540	VRG-ST2EC680J	68 ohm, 1/4W, ±5%, Fusible	AB
R541	VRD-ST2EE121J	120 ohm	AA
R542	VRD-ST2EE682J	6.8K ohm	AA
R543	VRD-ST2EE104J	100K ohm	AA
R545	VRD-ST2EE273J	27K ohm	AA
R546	VRD-ST2EE101J	100 ohm	AA
R547	VRD-ST2EE103J	10K ohm	AA
R548	VRD-ST2EE101J	100 ohm	AA
R549	VRD-ST2EE103J	10K ohm	AA
R550	VRD-ST2EE152J	1.5K ohm	AA
R551	VRD-ST2EE103J	10K ohm	AA
R552	VRD-ST2EE561J	560 ohm	AA
R553	VRD-ST2EE472J	4.7K ohm	AA
R554,555	VRD-ST2EE392J	3.9K ohm	AA
R556	VRD-ST2EE472J	4.7K ohm	AA
R557	VRD-ST2EE153J	15K ohm	AA
R558	VRD-ST2EE153J	15K ohm	AA
R559,560	VRD-ST2EE103J	10K ohm	AA
R561,562	VRD-ST2EE682J	6.8K ohm	AA
R563,564	VRD-ST2EE155J	1.5Meg ohm	AA
R565,566	VRD-ST2EE223J	22K ohm	AA
R567,568, R569,570	VRD-ST2EE473J	47K ohm	AA
R571,572	VRD-ST2EE223J	22K ohm	AA
R573,574	VRD-ST2EE153J	15K ohm	AA
R575,576	VRD-ST2EE333J	33K ohm	AA
R577,578	VRD-ST2EE562J	5.6K ohm	AA
R579,580	VRD-ST2EE103J	10K ohm	AA
R585,586	VRD-ST2EE123J	12K ohm	AA
R587,588	VRD-ST2EE222J	2.2K ohm	AA
R589,590, R591,592	VRD-ST2EE104J	100K ohm	AA

PARTS LIST

REF. NO.	PART NO.	DESCRIPTION	CODE
R593,594	VRD-ST2EE182J	1.8K ohm	AA
R595,596	VRD-ST2EE823J	82K ohm	AA
R597,598	VRD-ST2EE105J	1Meg ohm	AA
R599,600	VRD-ST2EE102J	1K ohm	AA
R601,602	VRD-ST2EE473J	47K ohm	AA
R603,604	VRD-ST2EE225J	2.2Meg ohm	AA
R605,606	VRD-ST2EE274J	270K ohm	AA
R607,608	VRD-ST2EE102J	1K ohm	AA
R609,610, R611,612	VRD-ST2EE103J	10K ohm	AA
R613,614	VRD-ST2EE473J	47K ohm	AA
R615	VRD-ST2EE102J	1K ohm	AA
R617,618	VRD-ST2EE682J	6.8K ohm	AA
R619,620	VRD-ST2EE122J	1.2K ohm	AA
R621,622	VRD-ST2EE823J	82K ohm	AA
R623,624	VRD-ST2EE272J	2.7K ohm	AA
R625,626	VRD-ST2EE222J	2.2K ohm	AA
R629	VRD-ST2EE681J	680 ohm	AA
R631,632	VRD-ST2EE103J	10K ohm	AA
R633,634	VRD-ST2EE104J	100K ohm	AA
R635,636	VRD-ST2EE821J	820 ohm	AA
R637	VRD-ST2EE102J	1K ohm	AA
R638	VRD-ST2EE221J	220 ohm	AA
R639,640	VRD-ST2EE472J	4.7K ohm	AA
R641,642	VRD-SU2EE474J	470K ohm	AA
R643,644	VRD-ST2EE474J	470K ohm	AA
R645	VRD-ST2EE103J	10K ohm	AA
R647,648	VRD-ST2EE273J	27K ohm	AA
R649	VRD-ST2EE563J	56K ohm	AA
R701,702	VRD-ST2EE104J	100K ohm	AA
R703,704	VRD-ST2EE221J	220 ohm	AA
R705,706	VRD-ST2EE564J	560K ohm	AA
R707,708	VRD-ST2EE563J	56K ohm	AA
R709,710	VRD-ST2EE223J	22K ohm	AA
R711,712	VRD-ST2EE152J	1.5K ohm	AA
R713,714	VRD-ST2EE103J	10K ohm	AA
R715,716	VRD-ST2EE562J	5.6K ohm	AA
R717,718	VRD-ST2EE472J	4.7K ohm	AA
R719,720	VRD-ST2EE332J	3.3K ohm	AA
R721,722	VRD-ST2EE473J	47K ohm	AA
R723,724	VRD-ST2EE181J	180 ohm	AA
R725,726	VRD-ST2EE472J	4.7K ohm	AA
R727,728	VRD-ST2EE184J	180K ohm	AA
R729,730	VRD-ST2EE274J	270K ohm	AA
R731,732	VRD-ST2EE102J	1K ohm	AA
⚠R733	VRG-SA2EC121J	120 ohm, 1/4W, ±5%, Fusible	AB
R734	VRD-ST2EE683J	68K ohm	AA
R735,736	VRD-ST2EE562J	5.6K ohm	AA
R737,738	VRD-ST2EE332J	3.3K ohm	AA
R739,740	VRD-ST2EE152J	1.5K ohm	AA
R741,742	VRD-ST2EE473J	47K ohm	AA
R743,744, R745,746	VRD-ST2EE103J	10K ohm	AA
R747,748	VRD-ST2EE222J	2.2K ohm	AA
R749,750, R751,752	VRD-ST2EE473J	47K ohm	AA
R753	VRD-ST2EE333J	33K ohm	AA
R754	VRD-ST2EE472J	4.7K ohm	AA

MECHANICAL PARTS

REF. NO.	PART NO.	DESCRIPTION	CODE
101	JKNBR0158AFSA	Key, Stop (Eject)/ Rewind/Fast Forward/Pause **(SC-700X)**	AG
	JKNBR0158AFSE	**(SC-700H)**	AG

REF. NO.	PART NO.	DESCRIPTION	CODE
102	JKNBR0158AFSB	Key, Deck [2] Record **(SC-700X)**	AG
	JKNBR0158AFSF	**(SC-700H)**	AG
103	JKNBR0158AFSC	Key, Deck [2] Play **(SC-700X)**	AG
	JKNBR0158AFSG	**(SC-700H)**	AG
104	JKNBR0159AFSA	Key, Deck [1] Play **(SC-700X)**	AK
	JKNBR0159AFSC	**(SC-700H)**	AK
105	LANGF0545AFZZ	Bracket, Deck [2] Flywheel	AD
106	LANGF0547AFFW	Bracket, Deck [2] Function Key Shaft	AB
107	LANGF0563AFZZ	Bracket, Deck [1] Flywheel	AD
108	LANGF0564AFZZ	Bracket, Pause Solenoid Retaining	AB
109	LANGF0565AFFW	Bracket, Deck [1] Function Key Shaft	AB
110	LBOSZ0106AFFW	Collar, Pause Release Lever	AB
111	LBSHZ0054AFZZ	Spacer, Auto-Stop Sensor Lever	AA
112	LCHSM0329AFZZ	Deck [2] Main Chassis	
113	LCHSM0344AFZZ	Deck [1] Main Chassis	
114	LCHSS0155AFZZ	Sub-chassis	
115	LHLDW3007AGFD	Wire Holder	AA
116	LSTPF0052AFFW	Stopper Function Key Shaft	AB
117	LSTWC2001AFZZ	Stop Ring (2mm Dia.)	AA
118	LSTWC2403AFZZ	Stop Ring (2.4mm Dia)	AA
119	LSTWC3002AFZZ	Stop Ring (3mm Dia)	AA
120	LSTWC4004AFZZ	Stop Ring (4mm Dia)	AA
121	LX-BZ0107AGZZ	Screw, Flywheel Thrust Adjust	AB
122	LX-BZ0282AFFD	Screw, Sub-chassis Spring Retaining	AA
123	LX-HZ0056AFFD	Screw (3mm Dia x 100mm), Flywheel Bracket Retaining	AA
124	LX-WZ5018AGZZ	Washer (2.1mm Dia x 4mm Dia x 0.25mm)	AA
125	LX-WZ5037AGZZ	Washer (2.6mm Dia x 4.7mm Dia x 0.25mm)	AA
126	LX-WZ9053AFZZ	Washer, Oil Cut	AA
127	LX-WZ9063AFZZ	Washer (1.2mm Dia x 4mm Dia x 0.5mm)	AA
128	LX-WZ9064AFZZ	Washer (1.5mm Dia x 3.8mm Dia x 0.5mm)	AA
129	LX-WZ9065AFZZ	Washer (2mm Dia x 3.8mm Dia x 0.5mm)	AA
130	MLEVF1004AFZZ	Lever, Play	AC
131	MLEVF1005AFZZ	Lever, Rewind	AB
132	MLEVF1006AFZZ	Lever, Fast-Forward	AC
133	MLEVF1007AFZZ	Lever, Stop/Eject	AB
134	MLEVF1008AFZZ	Lever, Deck [2] Record	AC
135	MLEVF1009AFZZ	Lever, Pause	AD
136	MLEVF1011AFZZ	Lever, Brake	AC
137	MLEVF1012AFZZ	Lever, Deck [2] Function Lever Lock	AC
138	MLEVF1013AFZZ	Lever, Auto-Stop Killer	AB
139	MLEVF1036AFZZ	Lever, Pause Lock	AA
140	MLEVF1056AFZZ	Lever, Lock Release	AC
141	MLEVF1057AFZZ	Lever, Deck [1] Function Lever Lock	AC
142	MLEVF1058AFZZ	Lever, Deck [1] APSS Lock	AB
143	MLEVF1059AFZZ	Lever, Deck [1] Sub-Chassis Back	AC
144	MLEVF1060AFZZ	Lever, Deck [1] APSS Switch Function Lever	AB
145	MLEVF1061AFZZ	Lever, Pause Release	AC
146	MLEVF1062AFZZ	Lever, Deck [2] Record/ Playback Selector Switch Interlocking	AC

PARTS LIST

REF. NO.	PART NO.	DESCRIPTION	CODE
147	MLEVP0112AFZZ	Lever, Cassette Holder Lock	AC
148	MLEVP0168AFZZ	Lever, Deck [2] Auto-Stop Sensor	AB
149	MLEVP0169AFZZ	Lever, Deck [2] Erase Prevention	AB
150	MLEVP0170AFZZ	Lever, Rewind/Fast-Forward Shift	AB
151	MLEVP0192AFZZ	Lever, Supply Turntable Brake	AC
152	MLEVP0195AFZZ	Lever, Pause Brake	AC
153	MSPRC0031AGMN	Spring, Record/Playback Head Azimuth Adjust	AA
154	MSPRC0195AFFJ	Spring, Function Lever Lock Lever	AA
155	MSPRC0197AFFJ	Spring, Play Lever	AA
156	MSPRC0198AFFJ	Spring, Pause/Record Lever	AA
157	MSPRC0201AFFJ	Spring, Auto-Stop Sensor Lever Spacer	AA
158	MSPRC0214AFFJ	Spring, Lock Release Lever	AA
159	MSPRC0228AFFJ	Spring, Solenoid	AA
160	MSPRD0241AFFJ	Spring, Cassette Holder Lock Lever	AA
161	MSPRD0243AFFJ	Spring, Pinch Roller	AA
162	MSPRD0244AFFJ	Spring, Pause Lock Lever	AA
163	MSPRD0245AFFJ	Spring, Brake Lever	AA
164	MSPRD0246AFFJ	Spring, Supply Turntable Brake Lever	AA
165	MSPRD0247AFFJ	Spring, Auto-Stop Killer Lever	AA
166	MSPRD0248AFFJ	Spring, Fast-Forward/ Rewind Roller	AA
167	MSPRD0249AFFJ	Spring, Fast-Forward/ Rewind Shift Lever (Left Side)	AA
168	MSPRD0250AFFJ	Spring, Fast-Forward/Rewind Shift Lever (Right Side)	AA
169	MSPRD0275AFFJ	Spring, Pause Brake Lever	AA
170	MSPRD0306AFFJ	Spring, Over Stroke Absorbing	AA
171	MSPRP0231AFFW	Spring (Plate type), Sub-chassis Retaining	AA
172	MSPRP0232AFFW	Spring (Plate type), Cassette Retaining	AC
173	MSPRT0623AFFJ	Spring, Deck [2] Erase Prevention Lever	AA
174	MSPRT0624AFFJ	Spring, Take-up Idler	AA
175	MSPRT0625AFFJ	Spring, Fast-Forward Lever	AA
176	MSPRT0626AFFJ	Spring, Rewind Lever	AA
177	MSPRT0627AFFJ	Spring, Stop/Eject Lever	AA
178	MSPRT0670AFFJ	Spring, Deck [1] APSS Lock Lever	AA
179	NBALS0053AFZZ	Steel Ball (3.5mm Dia)	AA
180	NBLTH0078AFZZ	Belt, Mechanism Drive	AB
181	NBLTK0153AFZZ	Belt, Auto-Stop	AB
182	NBRGC0061AFZZ	Bearing, Capstan	AE
183	NDAIR0138AFSA	Turntable, Take-up	AF
184	NDAIR0139AFSA	Turntable, Supply	AD
185	NDRM-0161AFZZ	Worm Wheel, Auto-Stop	AE
186	NFLYC0086AFZZ	Flywheel	AM
187	NIDR-0075AFZZ	Idler, Take-up	AE
188	NPLYR0050AFZZ	Pulley, Take-up	AB
189	NPLYR0068AFZZ	Worm Pulley, Auto-Stop	AD
190	NROLW0012AFZZ	Roller, Fast-Forward/ Rewind	AG
191	NROLX0013AFZZ	Gear, Rewind	AB
192	NROLY0030AFZZ	Pinch Roller Assembly	AE
193	NSFTN0004AFFW	Shaft, Auto-Stop Worm Wheel	AC
194	NSFTT0140AFFP	Shaft, Function Key	AD
195	PCUSG0026AG00	Rubber, Supply Turntable Bracket Lever	AA
196	PCUSG0112AF00	Rubber, Function Lever Shock Absorb	AA
197	PGIDM0074AFZZ	Guide, Auto-Stop Sensor Lever	AC
198	RHEDA0077AFZZ	Head, Deck [2] Erase	AM
199	RHEDF0061AFZZ	Head, Deck [1] Playback	AR
200	RHEDH0085AFZZ	Head, Deck [2] Record/ Playback	AS
201	RHEDZ0052AFFZ	Head, Deck [1] Dummy	AD
202	LANGF0475AFFW	Cover, Record/Playback Head	
203	PCUSU0246AFZZ	Cushion, Main Chassis	AA
206	PCOVP7166AFZZ	Fiber, Protector	
	Assembly Parts		
204	LCHSZ0083AFZZ	Deck [1] Main Chassis Block (REF. NO.; 113, 124, 127, 128, 136, 143, 163, 183, 184, 191, 197)	AS
205	LCHSZ0082AFZZ	Deck [2] Main Chassis Block (REF. NO.; 112, 124, 127, 128, 136, 163, 183, 184, 191, 197)	AS

MISCELLANEOUS

REF. NO.	PART NO.	DESCRIPTION	CODE
CNP101	QCNCM178JAFZZ	Plug, 9 Pin	AC
CNP102,103	QCNCM175FAFZZ	Plug, 6 Pin	AC
CNP104	QCNCM054FAFZZ	Plug, 6 Pin	AC
CNP201	QCNCM178JAFZZ	Plug, 9 Pin	AC
CNP202	QCNCM173DAFZZ	Plug, 4 Pin	AB
CNP301	QCNCM330KAFZZ	Plug, 10 Pin	AF
CNP302	QCNCM320EAFZZ	Plug, 5 Pin	AC
CNP303	QCNCM284CAFZZ	Plug, 3 Pin	AF
CNP401	QCNCM177HAFZZ	Plug, 8 Pin	AC
CNP402	QCNCM175FAFZZ	Plug, 6 Pin	AC
CNP403	QCNCM171BAFZZ	Plug, 2 Pin	AB
CNP701	QCNCM172CAFZZ	Plug, 3 Pin	AB
	QCNCM119LAFZZ	Plug, 11 Pin	AD
CNS101	CCNCW149JAF15	Socket Assembly, 9 Pin	
CNS102	QCNW-0835AFZZ	Socket Assembly, 6 Pin	AG
CNS103	QCNW-0839AFZZ	Socket Assembly, 6 Pin	AG
CNS104	CCNCW054FAF17	Socket Assembly, 6 Pin	
CNS201	CCNCW149JAF14	Socket Assembly, 9 Pin	
CNS202	CCNCW144DAF44	Socket Assembly, 4 Pin	
CNS301	CCNCW181KAF02	Socket Assembly, 10 Pin	
CNS302	CCNCW155EAF07	Socket Assembly, 5 Pin	
CNS303	CCNCW086CAF14	Socket Assembly, 3 Pin	
CNS401	QCNW-0837AFZZ	Socket Assembly, 8 Pin	AK
CNS402	QCNW-0834AFZZ	Socket Assembly, 6 Pin	AF
CNS403	QCNW-0838AFZZ	Socket Assembly, 2 Pin	AC
CNS701	QCNW-0833AFZZ	Socket Assembly, 3 Pin	AF
⚠F101,102	QFS-C322CAGNI	Fuse, T3.15A	AE
⚠F103	QFS-C631CAGNI	Fuse, T630mA	AE
⚠F104	QFS-C801CAGNI	Fuse, T800mA	AE
⚠F105,106	QFS-C252CAGNI	Fuse, T2.5A	AE
⚠F107	QFS-C202CAGNI	Fuse, T2A	AE
J101	QJAKJ0067AFZZ	Jack, Headphones	AG
J301	QJAKF0057AFZZ	Jack, Microphone	AM
M1	RMOTV0095AFZZ	Deck [1] Motor	AV
M2	RMOTV0095AFZZ	Deck [2] Motor	AV
PL101	RLMPM0118AFZZ	Dial Illumination	AD
PL401	RLMPM0119AFZZ	APSS Indicator	AE

PARTS LIST

REF. NO.	PART NO.	DESCRIPTION	CODE
SOL1	RPLU-0109AFZZ	Deck [1] APSS Solenoid	AH
SOL2	RPLU-0109AFZZ	Deck [1] Pause Solenoid	AH
SOL3	RPLU-0109AFZZ	Deck [2] Pause Solenoid	AH
SO101,102	QSOCD2294AFZZ	Socket, Speaker	AF
⚠SO103	QSOCE0559AFZZ	Voltage Selector	AL
SO401	QSOCD0477AFZZ	Socket, FM/AM Antenna	AF
SO402	QSOCD2593AFZZ	Socket, Phono Input (DIN type)	AE
SO403	QSOCD2593AFZZ	Socket, Auxiliary Input	AE
SO404	QSOCJ2280AFZZ	Socket, Phono Input (RCA type)	AD
⚠SW1	QSW-P0158AFZZ	Switch, Power	AL
SW2	QSW-F0136AFZZ	Switch, Deck [1] Muting	AD
SW3	QSW-F0049AGZZ	Switch, Deck [1] APSS	AE
SW4	QSW-F0049AGZZ	Switch, Deck [1] Tape End	AE
SW5	QSW-F0049AGZZ	Switch, Deck [1] Motor	AE
SW6	QSW-F0049AGZZ	Switch, Deck [2] Motor	AE
SW7	QSW-F0136AFZZ	Switch, Deck [2] Muting	AD
SW8	QSW-F0049AGZZ	Switch, Deck [2] Tape End	AE
SW102	QSW-P0268AFZZ	Switch, One-touch Start	AE
SW301	QSW-P0266AFZZ	Switch, Editor	AE
SW401-1~12	QSW-P0272AFZZ	Switch Assembly, FM Muting Function Selector/Tape Selector/Dolby NR	AX
SW402	QSW-S0302AFZZ	Switch, Record/Playback	AH
SW403-1~3	QSW-P0273AFZZ	Switch Assembly, Tape Operation Selector/Dubbing/ Loudness	AL
301	GCAB-3098AFSB	Cabinet **(SC-700H)**	AW
	GCAB-3098AFSA	Cabinet **(SC-700X)**	AX
302	GFTAC1129AFSB	Cassette Holder **(SC-700H)**	AP
	GFTAC1129AFSA	Cassette Holder **(SC-700X)**	AN
303	GFTAF1016AFSA	Lid, Control **(SC-700H)**	AP
	GFTAF1018AFSA	Lid, Control **(SC-700X)**	AP
304	GFTAR6172AFSA	Terminal Board **(SC-700H)**	AH
	GFTAR6177AFSA	Terminal Board **(SC-700X)**	AH
305	GFTAU3097AFZZ	Bottom Plate	AF
306	GLEGP0068AFZZ	Leg	AB
307	HBDGS3056AFSA	Badge, METAL	AC
308	HDALP0455AFSA	Dial Scale	AL
309	HDAP-0186AFSA	Plate, Dial Scale	AF
310	HDECB0018AGSA	Mirror	AA
311	HDECQ0125AFSA	Cover, APSS Lamp	AB
312	HINDM1427AFSB	Indication Plate, Control Section **(SC-700H)**	AE
	HINDM1427AFSA	Indication Plate, Control Section **(SC-700X)**	AE
313	HPNLC1304AFSB	Frame with Indicator Window **(SC-700H)**	AW
	HPNLC1304AFSA	Frame with Indicator Window **(SC-700X)**	AW
314	HPNLC3456AFSA	Front Panel Assembly **(SC-700H)**	BB
	HPNLC3456AFSB	Front Panel Assembly **(SC-700X)**	BB
314-1	————	Front Panel	
●314-2	HPNLD1194AFSA	Window, Dial Scale	AG
315	HSSND0268AFSA	Pointer, Dial Scale	AG
316	JKNBM0382AFSC	Button, Tape Operation Selector/ Dubbing/Loudness Switch **(SC-700H)**	AD
	JKNBM0382AFSA	Button, Tape Operation Selector/ Dubbing/Loudness Switch **(SC-700X)**	AD
317	JKNBM0382AFSD	Button, Function Selector/Tape Selector/Dolby NR/Editor Switch **(SC-700H)**	AD
	JKNBM0382AFSB	Button, Function Selector/Tape Selector/Dolby NR/Editor Switch **(SC-700X)**	AD
318	JKNBN0459AFSB	Knob, Tuning Control **(SC-700H)**	AF
	JKNBN0459AFSA	Knob, Tuning Control **(SC-700X)**	AF
319	JKNBN0460AFSB	Knob, Volume Control **(SC-700H)**	AF
	JKNBN0460AFSA	Knob, Volume Control **(SC-700X)**	AF
320	JKNBN0461AFSB	Knob, Record **(SC-700H)**	AB
	JKNBN0461AFSA	Level/Tape Fader/Microphone Mixing/ Balance/ Bass/Treble **(SC-700X)**	AB
321	JKNBP0109AFSD	Button, Power/ One-touch Start Switch **(SC-700H)**	AE
	JKNBP0109AFSA	Button, Power/ One-touch Start Switch **(SC-700X)**	AE
322	KCOUB0096AFZZ	Tape Counter	AK
323	LANGF0560AFZZ	Bracket, Heat Sink	AD
324	LANGF0566AFZZ	Bracket, Cabinet	AE
325	LANGF0580AFZZ	Bracket, Center	AD
326	LANGG0079AFZZ	Bracket, Cabinet Guide	AD
327	LANGJ0089AFZZ	Plate, Chassis Ground	AA
328	LANGK0251AFZZ	Bracket, Dial Lamp PWB	AB
329	LANGQ0477AFZZ	Bracket, Playback Amplifier	AB
330	LANGQ0762AFZZ	Bracket, Volume	AE
331	LANGQ0789AFZZ	Bracket, Power Switch	AC
332	LANGT0945AFZZ	Bracket, Main PWB	AC
333	LANGT0993AFZZ	Bracket, Power PWB	AB
⚠334	LBSHC0002AGZZ	Busing, Mains Supply Cord	AB
⚠	LBSHC0004AGZZ	Bushing, Mains Supply Cord	AB
⚠	LBSHC0053AFZZ	Bushing, Mains Supply Cord	

See Table 22-1

335	LCHSM0364AFZZ	Chassis	
336	LHLDC1054AFZZ	Holder, AM Bar Antenna	AD
337	LHLDP1064AFZZ	Holder, LED	AD
338	LHLDP8004AF00	Holder, APSS Lamp	AC
339	LHLDW1052AFZZ	Wire Holder	AA
340	LHLDW1057AFZZ	Wire Holder	AA
341	LHLDW1060AFZZ	Wire Holder	AA
342	LHLDW1068AFZZ	Nylon Band (100mm)	AA
343	LHLDW1075AFZZ	Nylon Band (60mm)	AA
344	LHLDW9002CEZZ	Wire Holder	AA
345	LHLDW9003CEZZ	Wire Holder	AA
346	LX-BZ0294AFZZ	Screw (8mm), Mechanism Retaining	AA
347	LX-BZ0295AFZZ	Screw (12mm), Mechanism Retaining	AA
348	LX-HZ0053AFFD	Screw, Main PWB Retaining	AA
349	LX-HZ0053AF00	Screw, Terminal Board Retaining	AA
350	LX-NZ0118AFFD	Nut, Headphone/Microphone Jacks Retaining	AA
351	LX-WZ3066AFZZ	Terminal, Ground	AA
352	MLEVF1055AFZZ	Lever, One-touch Start Switch	AC
353	MLEVP0251AFZZ	Lever, Function Selector/ Tape Selector/Dolby NR Switch	AD
354	MLIFP0003AFZZ	Damper, Cassette Holder	AD
355	MSPRP0238AFFJ	Spring (Plate type), Cassette Holder	AB
356	MSPRT0304AFFJ	Spring, Dial Cord	AA
357	MSPRT0668AFFJ	Spring, Cassette Holder	AA
358	MSPRT0669AFFJ	Spring, Control Lid	AA
359	MSPRT0757AFFJ	Spring, Record/Playback Switch	
360	NBLTK0175AFZZ	Belt, Tape Counter	AC
361	NDRM-0165AFZZ	Drum	AD
362	NPLYD0052AFZZ	Pulley, Dial Cord (Small)	AB
363	NPLYD0054AFZZ	Pulley, Dial Cord (Large)	AB
364	NSFTD0202AFZZ	Dial Shaft	AM
365	PCOVU7122AF00	Cover, Dial Illumination	AA
366	PCOVU7123AF00	Cover, APSS Illumination	AA

PARTS LIST

REF. NO.	PART NO.	DESCRIPTION	CODE
367	PCOVU9112AFZZ	Cover, Dial Illumination	AA
368	PCOVW1111AFZZ	Cover, Power Switch	AB
369	PCUSZ0011AFZZ	Cushion, Variable Capacitor	AA
370	PFLT-0340AF00	Felt, Cabinet Guide Bracket	AA
371	PGUMS0148AF00	Rubber, Main PWB Cushion	AA
372	PGUMS0150AF00	Rubber, Frame	AA
373	PGUMS0151AFZZ	Cushion, Erase Prevention Lever	AA
374	PGUMS0155AFZZ	Rubber, Cabinet Cushion	AA
375	PGUMS0158AF00	Rubber, Cabinet Rear	AA
376	PRDAF0050AFFW	Heat Sink, Diode (D104)	AC
377	PRDAR0224AFZZ	Heat Sink (Large)	AL
378	PRDAR0243AFZZ	Heat Sink (Small)	
379	PSLDC3117AFZZ	Shield, FM Front End	
380	PSPAJ0055AFZZ	Spacer, One-touch Start Switch Lever	AA
381	PSPAZ0093AFZZ	Cushion, Control Lid	AA
382	PSPAZ9002AGZZ	Insulator (Mica), Transistor (Q108)	AA
⚠383	QFSHD2051AFZZ	Fuse Holder	AA
384	QHWS-3001AGFN	Lug Terminal	AA
385	QLUGP0111CEFW	Wrapping Pin (Small)	AA
386	QLUGP0165AFZZ	Wrapping Pin (Large)	AA
387	QSOCT2151AFZZ	Socket, Transistor (Q108)	AB
⚠	QACCB0052AF09	Mains Supply Cord	AH
⚠	QACCL0051AFZZ	Mains Supply Cord	AP
⚠	QACCV0001AGZZ	Mains Supply Cord	AL
⚠	QACCZ0002TA0F	Mains Supply Cord	AG
⚠	QACCZ0053AF00	Mains Supply Cord	AK
	QANTW0058AFZZ	FM Antenna	AK
⚠	QPLGA0250AFZZ	Adaptor, Mains Supply Cord	AF
	SPAKA0720AFZZ	Packing Add. (Left Side)	AM

See Table 22–1

REF. NO.	PART NO.	DESCRIPTION	CODE
	SPAKA0721AFZZ	Packing Add. (Right Side)	AM
	SPAKC1605AFZZ	Packing Case **(SC-700H)**	AP
	SPAKC1624AFZZ	Packing Case **(SC-700X)**	AP
	SPAKP0139AFZZ	Polyethylene Bag	AD
	SPAKX0333AFZZ	Packing Add. (Upper Part)	AG
	SSAKA0007SEZZ	Polyethylene Bag, Operation Manuel etc. **(SC-700H)**	AA
	SSAKA0024AFZZ	**(SC-700X)**	AA
	TINSZ0257AFZZ	Operation Manual **(SC-700H)**	AN
	TINSP0144AFZZ	Operation Manual **(SC-700X)**	AN
	TLABP0154AFZZ	Fuse Label, T630mA	
	TLABP0188AFZZ	Fuse Label, T800mA	
	TCADZ0082AFZZ	Card, Cassette Holder **(SC-700X: SCA, EX)**	

PWB ASSEMBLY (Not Replacement Item)

REF. NO.			
PWB-A, PWB-B, PWB-C, PWB-D, PWB-E, PWB-F, PWB-G, PWB-H, PWB-I, PWB-J, PWB-K	DUNTJ0060AF03 (Combined Assembly)	Power PWB AC Supply PWB Speaker Socket PWB Dial Lamp PWB Headphone Jack PWB Main PWB LED Drive PWB	–
PWB-L, PWB-M	DUNTL0126AF06 (Combined Assembly)	LED PWB Switch PWB DIN Socket PWB Pin Socket PWB	–
	DUNTP0054AF06 (Combined Assembly)	Playback Amplifier PWB Main Switch PWB	–

A8012-4.555MYM
Printed in Japan